

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL DEEPEN PLUG BACK

b. TYPE OF WELL

OIL WELL GAS WELL OTHER SINGLE ZONE MULTIPLE ZONE

2. NAME OF OPERATOR ARCO Oil and Gas Company, a Division of Atlantic Richfield

3. ADDRESS OF OPERATOR P.O. Box 5540, Denver, Colorado 80217

4. LOCATION OF WELL (Report location clearly and in accordance with requirements.)*
At surface 610'FSL & 1940'FEL, Section 22-43S-22E
At proposed prod. zone Approximately the same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
Approximately 11 miles to Red Mesa to the SE

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)
610'

16. NO. OF ACRES IN LEASE
2560

17. NO. OF ACRES ASSIGNED TO THIS WELL
NA

18. DISTANCE FROM PROPOSED* LOCATION TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.
1650'

19. PROPOSED DEPTH
4255

20. ROTARY OR CABLE TOOLS
Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
GR 5350'

22. APPROX. DATE WORK WILL START*
September 15, 1982

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	8-5/8"	24#, K-55, STC	400	280 sx Class "B" to surface
7-7/8"	5-1/2"	15.5#, K-55, LTC	5220	1st stage 250 sx 50/50 Poz & 100 sx Class "H" (2200' column) 2nd stage 220 sx 50/50 Poz & 1800' (cmt to surface)

*Note: In our Notice of Staking dated 7/13/82, we referred to the subject well as the English WN #38, this was an error. The correct name for the subject well is the English WN #37. All future correspondence will reflect the correct well name.

Exhibits Attached

- 1) Certified Location Plat
- 2) Access to Location
- 3) Well within the English Unit
- 3a) Location of Tank Batteries
- 4) Drillsite Layout as Staked
- 5) Cross section of drill pad
- 6) Rig Equipment
- 7) BOP Diagram
- 8) Archaeological Report

APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING

DATE 8-24-82
BY: *Armona Stout*

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED *W.A. Walther, Jr.* TITLE District Manager of Production DATE 8/6/82

PERMIT NO. _____ APPROVAL DATE _____

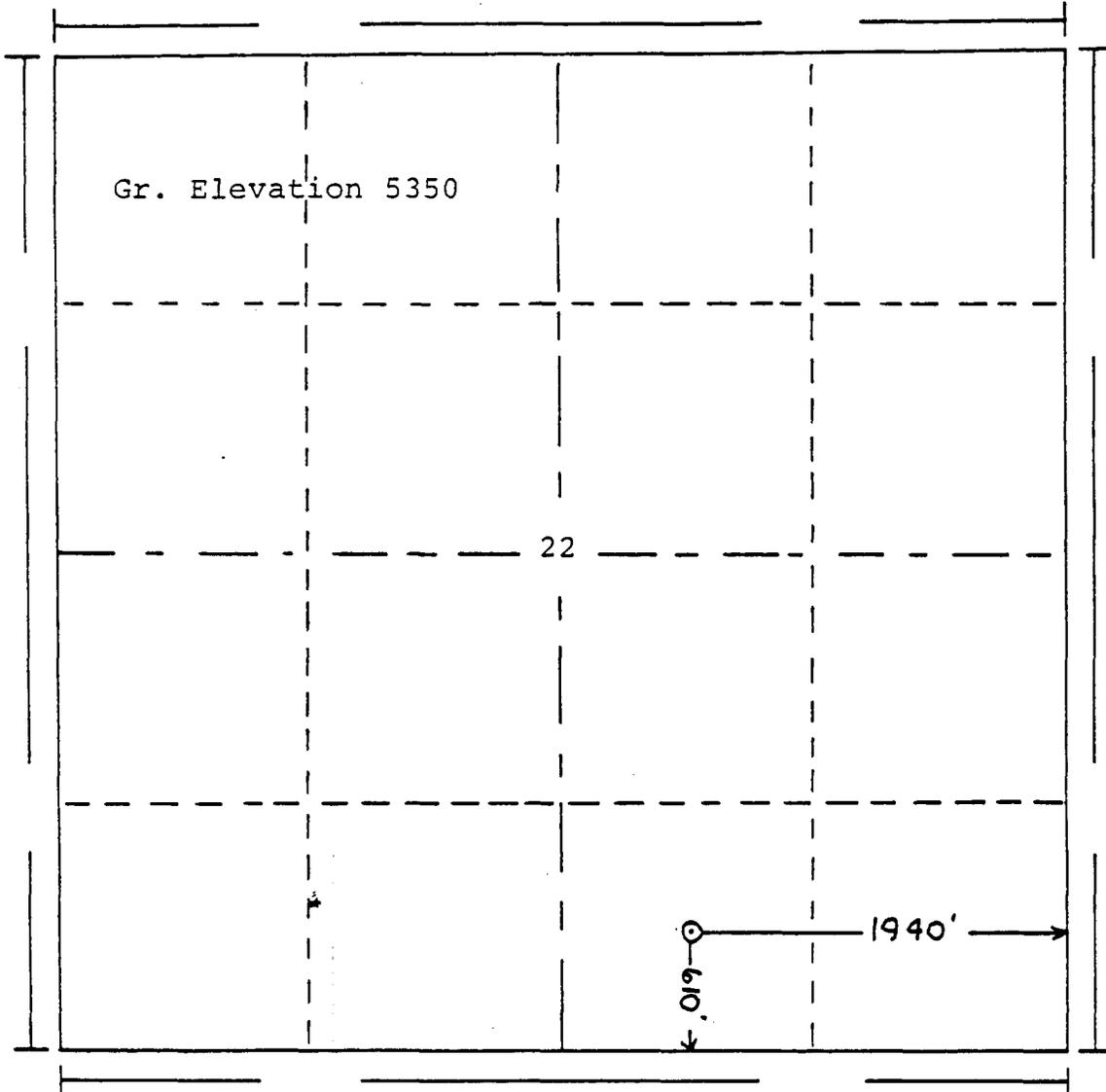
APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

RECEIVED
AUG 09 1982
DIVISION OF OIL, GAS & MINING



R. 22 E



T. 43 S

Scale... 1" = 1000'

Powers Elevation of Denver, Colorado
 has in accordance with a request from Pete Tibbitts
 for Arco Oil & Gas
 determined the location of English WN # ~~X~~ 37 ¹⁰⁹
 to be 610fsl, 1940fel Section 22 Township 43 S
 Range 22 E of the Salt Lake Meridian
 San Juan County, Utah

I hereby certify that this plat is an
 accurate representation of a correct
 survey showing the location of
 English WN # ~~X~~ 37 ¹⁰⁹

Date: 7-21-82

T. Nelson
 Licensed Land Surveyor No. 2711
 State of Utah

EXHIBIT # 1

Exhibit #3

Navajo Indian Lease # I-149-IND-7180

Proposed Pennsylvania Test Well Location
660' FSL + 1940' FEL
Sec 22-T435-R22E

ENGLISH UNIT
ARCo. 1/2 Opr.
Conoco et al 1/2

ENGLISH UNIT
ARCo. 1/2 Opr.
Conoco et al 1/2

BOUNDARY BUTTE

RABBIT EAR

I-149 INDIAN 7601

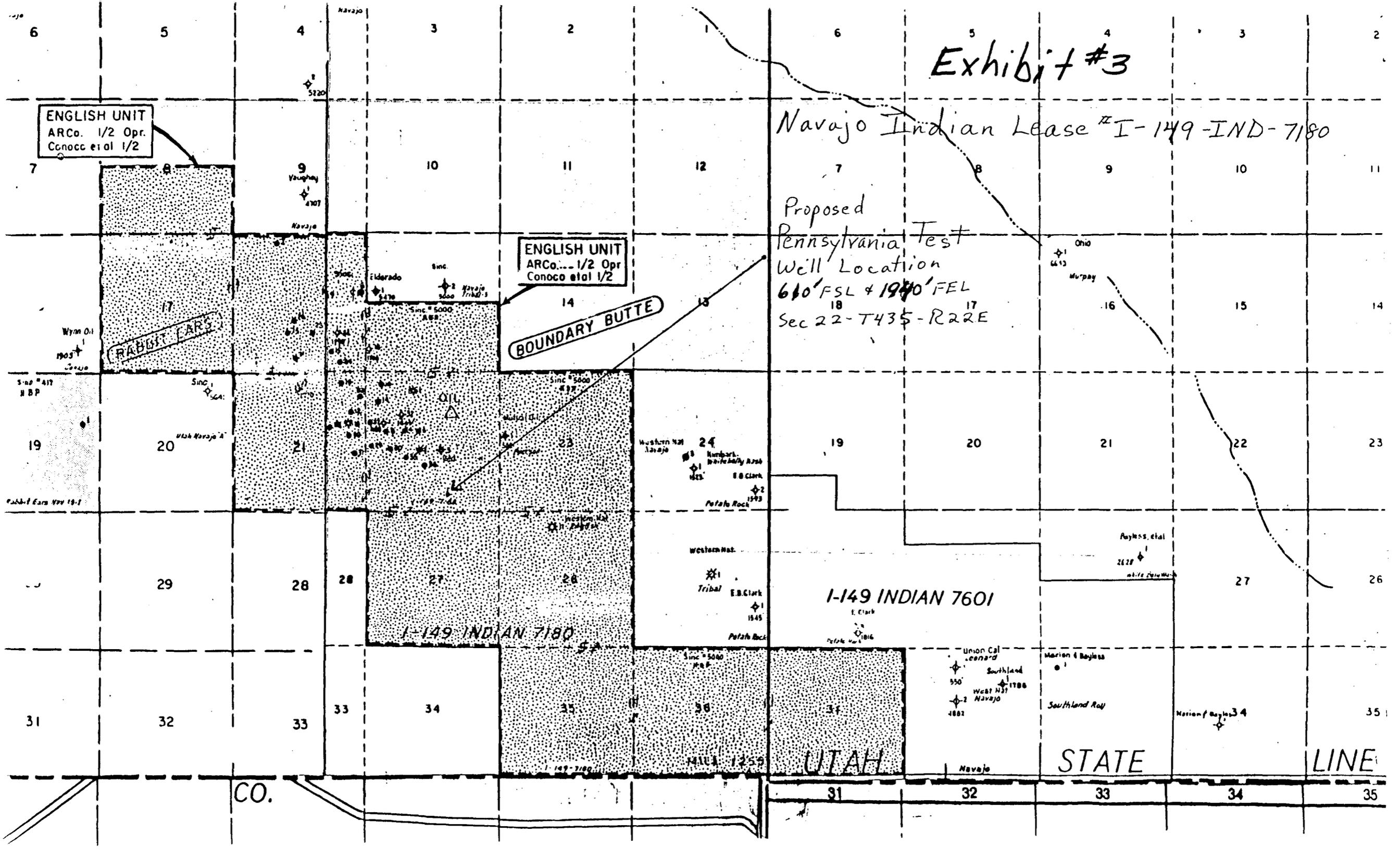
I-149 INDIAN 7180

UTAH

STATE

LINE

CO.



R22E



T43S

R22E

Legend
—— Oil
- - - Gas
· · · Gas Residue

Exhibit 3a

TEN POINT DRILLING PLAN

Attach to APD Form 9-331-C
ARCO Oil and Gas Company
English Unit WN #37
610' FSL & 1940' FEL
Section 22-43S-22E
San Juan County, Utah

1. Surface Geological Formation: Jurassic-Triassic Glen Canyon Group

2. Estimated Tops of Geological Markers:

Chinle	- 535'	Ismay	- 4325'
Shinarump	- 1245'	Desert Creek	- 4445'
Moenkopi	- 1345'	Akah	- 4615'
Coconino	- 1550'	Barker Creek	- 4780'
Organ Rock	- 1950'	Pinkerton Trail	- 4940'
Upper Hermosa	- 3575'	Molas	- 5170'
Paradox Lime	- 4255'	Mississippian	- 5285'

3. Estimated Tops of Possible Water, Oil, Gas or Minerals:

Coconino	- 1550' (oil)	Akah	- 4615' (oil & gas)
Ismay	- 4325' (oil & gas)	Barker Creek	- 4780' (oil & gas)
Desert Creek	- 4445' (oil & gas)	Pinkerton Trail	- 4940' (oil & gas)

4. Proposed Casing Program:

<u>Casing</u>	<u>Hole Size</u>	<u>Interval</u>	<u>Section Length</u>	<u>Size OD</u>	<u>Weight Grade and Joint</u>	<u>New Used</u>
Conductor	None					
Surface	12-1/4"	0- 400'	400	8-5/8"	24#,K-55,STC	New
Intermedicate	None					
Production	7-7/8"	400-5220'	4820	5-1/2"	15.5#,K-55,LTC	New
Liner	None					

Cement Program

Conductor	NA
Surface	280 sx Class "B" cmt. Cmt to surface with 100% excess.
Intermediate	NA

4. Proposed Casing Program Cont'd:

Production 1st stage 250 sx Poz 50/50 and 100 sx Class "H".
 (2200' column with 25% excess)

 2nd stage @ 1800' 220 sx Poz 50/50 with 50 sx Class
 "H" (cmt to surface with 25% excess)

Liner NA

5. Control Equipment:

Blowout Preventor - Ram Type, hydraulic operated
 Rams - Two: One blind ram and one pipe ram.
 Series - 900 (3000#WP, 6000#T)
 Manufacturer: Cameron or Shaffer
 Pressure test @ 1000 psi prior to drilling out
 csg string. Operational checks to be made daily
 and on trips.

6. Type and Characteristic of Proposed Drilling Fluids:

<u>Depth</u>	<u>Type</u>	<u>Weight #/gal.</u>	<u>Visc. sec/qt.</u>	<u>Fluid Loss cc</u>
0- 400'	Fresh wtr gel	8.7	35	20+
400- TD	LSND	8.7	35	10-15

7. Auxiliary Equipment:

Kelly cock
 Sub on floor with full opening valve for use in
 drill pipe when Kelly is not in the string.

8. Testing, Logging and Coring Programs:

At this time 4 drill stem tests and no cores are planned. However,
 hole conditions or other information obtained while drilling may
 alter these plans.

Logs: Open Hole - DLL/GR TD - Surf Csg 2" & 5" = 100'
 CNL-FDC/GR TD - Surf Csg 2" & 5" = 100'

 Cased Hole - CBL/VDL/CCL/GR TD - Surf Csg in 5-1/2" csg.

At this time it is anticipated that this well will require an acid job of
 approximately 5625 gallons of HCl acid emulsion.

9. Anticipated Abnormal Temperatures, Pressures or Hazards:

There are no abnormal pressures, temperatures or potential hazards in the area. The maximum anticipated pressure is 2400 psi at TD. Weight material will be maintained on location and BOP will be pressure tested and kept in good working condition.

10. Anticipated Starting Date and Duration of Operations:

Depending upon District Engineer's approval, the dirt work on this location could be commenced in September, 1982. Move in and rig up (3 days), drilling and completion (37 days). Any delays in obtaining equipment, drilling rig, etc., could considerably extend these estimated days. It is estimated that the earliest this well could be spudded would be September 15, 1982.

13-POINT PLAN SURFACE USE PLAN

Attached to Form 9-331C
ARCO Oil and Gas Company
English WN #37
610' FSL & 1940' FEL
Section 22-43S-22E
San Juan County, Utah

1. Existing Roads:

- A. The proposed location is staked as shown in the Certified Location Plat Exhibit 1.
- B. The location is reached by taking State Highway #504 west out of Shiprock to Teec Nos Pos. Turn onto U. S. Highway #160 west and continue to a point 4 miles west of the Red Mesa Trading Post. Turn right onto the dirt road which should have a sign indicating that the dirt road leads to the English Unit. Continue north on the dirt road to the roads marked on the topographic map. Turn left at the fork and proceed to the access to the well location.
- C. Access road is shown in Exhibit 2.
- D. This is a development well.
- E. The existing roads within a one (1) mile radius of this location are on Exhibit 2.
- F. Existing roads will not require any improvement, but in the event of bad weather or other conditions, the roads will be maintained to whatever extent is required.

2. Planned Access Roads:

- 1. The access road will be approximately 18 feet wide.
- 2. The grade will be less than 8%.
- 3. No turnouts are required.
- 4. Drainage will be used as required.
- 5. No culverts will be used.
- 6. No additional materials will be required.
- 7. No cattlguards are required.

3. Location of Existing Wells:

Within the boundaries of the English Unit there have been 36 wells drilled to date. The following is a summary of the status of the wells:

18 Cononio Producers

6 Paradox wells currently shut-in, of which
2 are being vented to heat the 2 tank batteries
within the Unit

12 Dry holes

Also within the Unit boundary there are none of the following:

- 1) Water wells
- 2) Disposal wells
- 3) Drilling wells
- 4) Injection wells
- 5) Monitoring or observation wells

Exhibit 3 & 3a is a map of the English Unit which shows all the wells that have been drilled. Exhibit 3a shows the location of the two tank batteries that are in the Unit.

4. Location of Existing and/or Proposed Facilities:

- A. Within the English Unit the 18 Coconio producers are equipped with pumping units, and the two tank batteries are located in the NW/4 NW/4 of Section 22 and SW/4 NW/4 of Section 16 respectively (See Exhibit #3a).
- B. If the well is productive, we propose to utilize a gas compressor that is currently shut-in located in the SW/4 of Section 23.
- C. Rehabilitation, whether well is productive or dry, will be made on all unused areas in accordance with B.I.A. stipulations.

5. Location and Type of Water Supply:

- A. We will utilize produced water from Battery #1 located in NW/4 NW/4 of Section 22 (See Exhibit #3a).
- B. All water will be hauled by truck.
- C. No wells will be drilled.

6. Construction Materials: No materials will be required.

7. Handling of Waste Materials and Disposal:

- (1) Drill cuttings will be buried in the reserve pit.
- (2) Drilling fluids will be handled in the reserve pit.
- (3) Any fluids produced during drilling test or while making production test will be collected in a test tank. If a test tank is not available during drilling, fluids will be handled in reserve pit. Any spills of oil, gas, salt water or other noxious fluids will be cleaned up and removed. If well is productive, produced water will be disposed of on-site for 30 days only, or 90 days with permission of District Supervisor. After that time application will be made for approval of permanent disposal methods in compliance with NTL-2b.
- (4) Toilet facilities will be provided for human waste.
- (5) Garbage and non-flammable waste and salts and other chemicals produced during drilling or testing will be handled in trash pit. Flammable waste will be disposed of in burn pit. Drill fluids, water, drilling mud and tailings will be kept in reserve pit. Reserve pit will be fenced on three sides during drilling and the fourth side fenced upon removal of the rig.
- (6) After the rig moves out, all materials will be cleaned up and no adverse materials will be left on location. All dangerous open pits will be fenced during drilling and kept closed until such time as the pit is leveled.

8. Ancillary Facilities:

No air strip, camp or other facilities will be built during drilling of this well.

9. Well Site Layout:

- (1) Cuts and fill have been drafted to visualize the planned cut across the location spot and the deepest part of the pad (see Exhibit 5).
- (2) Exhibit 6 is a plan diagram of the proposed rig and equipment, reserve pit, trash/burn pit, pipe racks and mud tanks. No permanent living facilities are planned. There will be 3 or 4 trailers on location.
- (3) Exhibit 4 shows drill pad layout as staked.
- (4) The reserve pits will not be lined.

10. Plans for Restoration:

- (1) If well is abandoned, site will be restored to original condition as nearly as possible. Backfilling, leveling and contouring are planned as soon as all pits have dried. Waste disposal and spoils materials will be buried or hauled away immediately to an approved sanitary land fill after drilling is completed. If production is obtained, the unused area will be restored as soon as possible.
- (2) The soil banked material will be spread over the area. Revegetation will be accomplished by planting mixed grasses as per formula provided by the BIA. Revegetation is recommended for road area, as well as around drill pad.
- (3) Three sides of the reserve pit will be fenced during drilling operations. Prior to rig release, the reserve pit will be fenced on the fourth side to prevent livestock or wildlife from entering; and the fencing will be maintained until leveling and cleanup are accomplished.
- (4) If any oil is on the pits and is not immediately removed or burned after operations cease, the pit containing the oil or other adverse substances will be flagged overhead or covered with wire mesh.
- (5) The rehabilitation operations will begin immediately after the drilling rig is removed. Removal of oil or other adverse substances will begin immediately or area will be flagged and fenced. Other cleanup will be done as needed. Planting and revegetation will be done as recommended by surface management agency.

11. Other Information:

- (1) Vegetation is Mormon Tea, Indian Rice Grass, Rabbit Brush, Yucca and Brown Snake Weed.
- (2) Drainage is to the south, southeast and goes down a small wash to the southwest.
- (3) The nearest water supply is approximately 1 mile northwest at the #1 Tank Battery (See Exhibit #3a).
- (4) The nearest dwellings are approximately 4 miles east of location where 3 homes are located.
- (5) The nearest town, trading post and school is Red Mesa, 11 miles to the southeast. Montezuma Creek, Utah is approximately 28 miles northeast of location.
- (6) The anticipated starting date is September 15, 1982 and will require approximately 22 days to drill and an additional 15 days to complete the well if it is successful.

11. Other Information Cont'd:

(7) An archaeological survey was conducted at the onsite inspection. No inventories of archaeological sites were discovered. Exhibit 8 is a copy of the Archaeology report.

12. Lessee's or Operator's Representative:

W. A. Walther, Jr.
ARCO Oil and Gas Company
P. O. Box 5540
Denver, Colorado 80217
Bus. Tele: (303) 575-7031
Res. Tele: (303) 575-7153

J. M. McCarthy
ARCO Oil and Gas Company
P. O. Box 5540
Denver, Colorado 80217
Bus. Tele: (303) 575-7127
Res. Tele: (303) 575-7314

13. Certification:

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by ARCO Oil and Gas Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

August 6, 1982

Date



W. A. Walther, Jr.
District Manager of Production
ARCO Oil and Gas Company

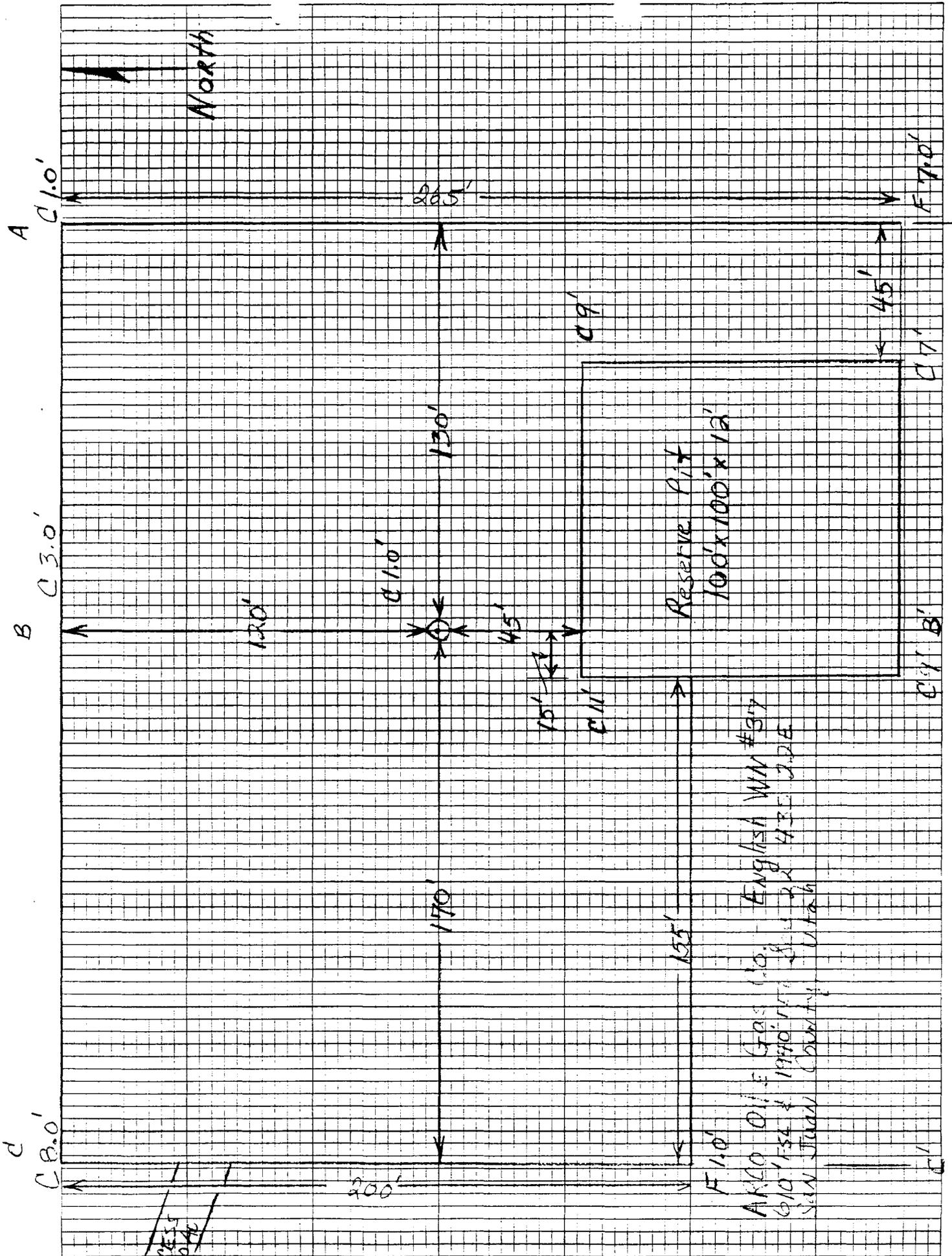
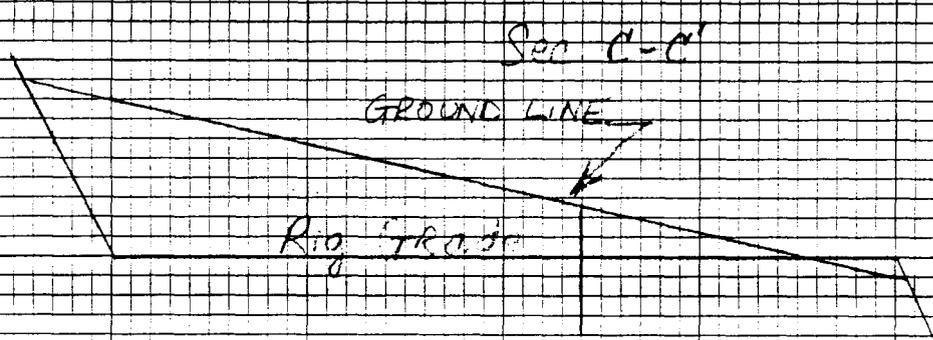
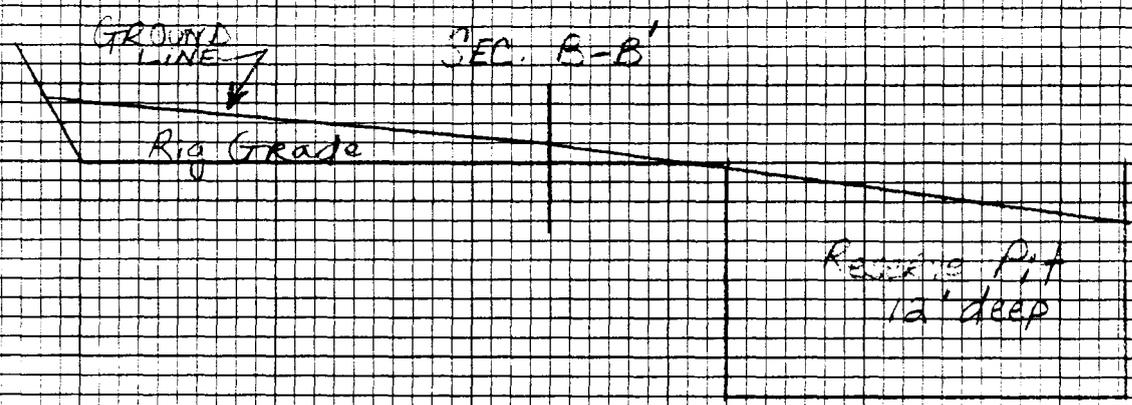
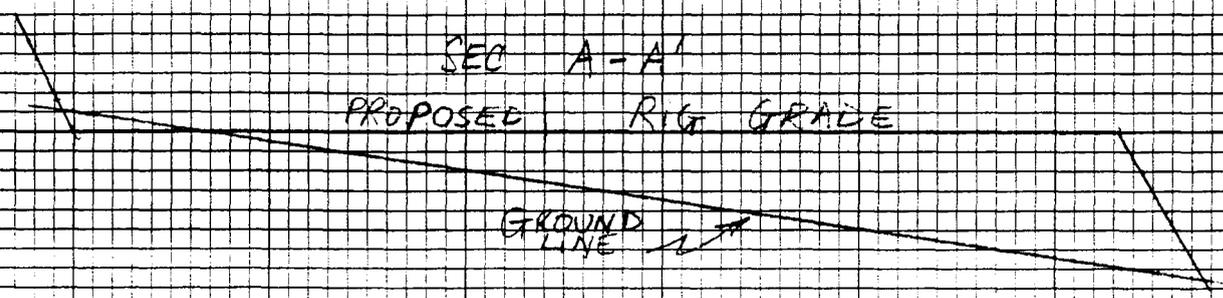


Exhibit # 4

CROSS SECTIONS



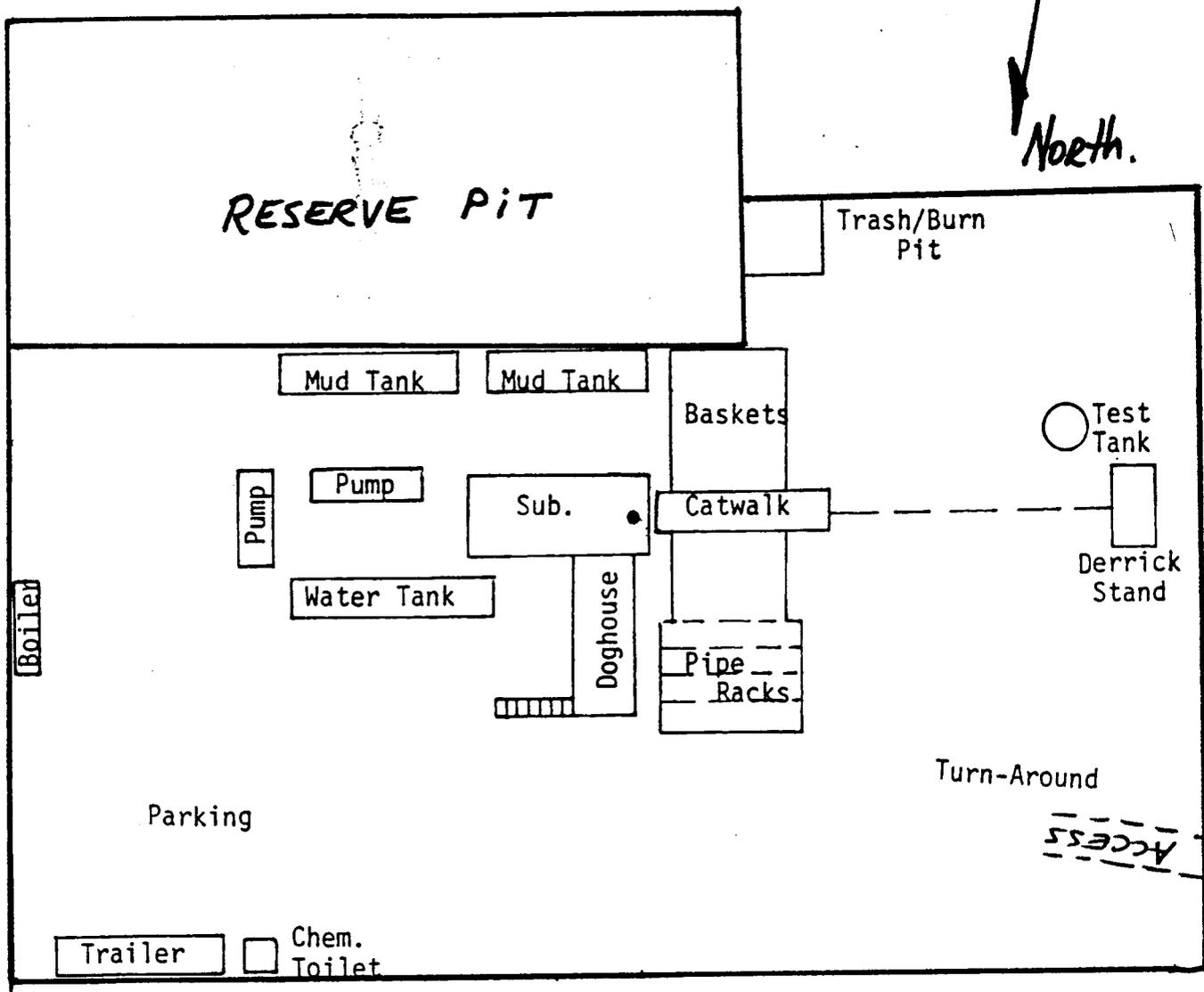
Scale 1" = 50' Horizontal
1" = 10' Vertical

Arco Oil & Gas Co. English NN#37

Exhibit 5

46 0706

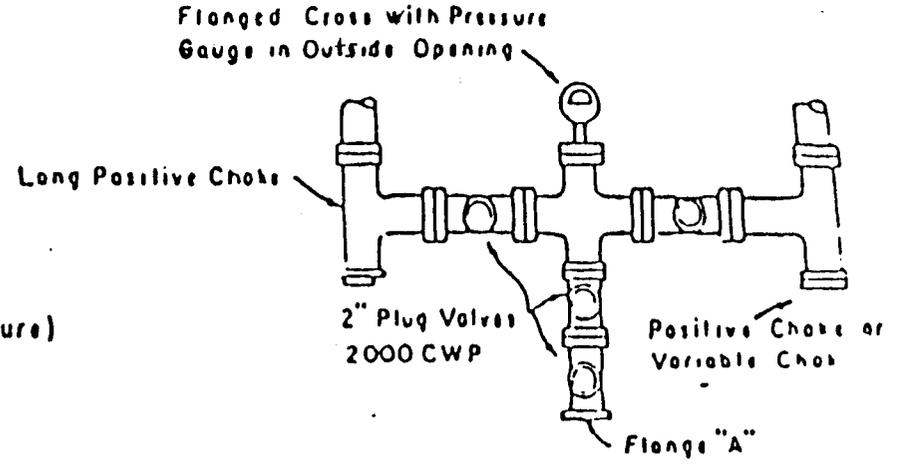
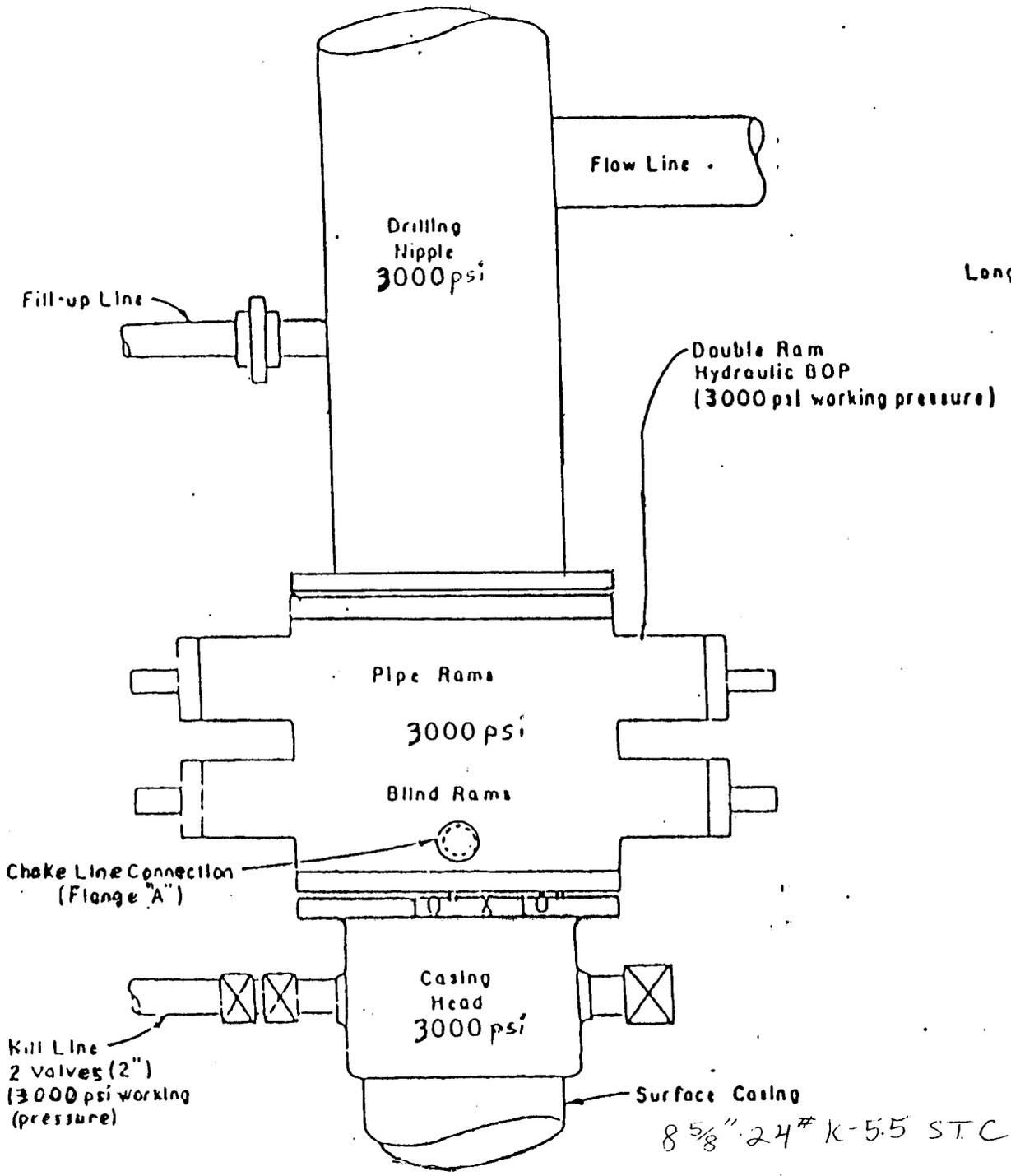
10 X 10 TO THE INCH • 7 X 10 INCHES
KEUFFEL & ESSER CO. MADE IN U.S.A.



English WN #37

Note: Not to Scale

Exhibit 6



PLAN VIEW - CHOKE MANIFOLD

BLOWOUT PREVENTER
 DIAGRAM
 EXHIBIT #7



ARCHAEOLOGICAL CONSULTANTS

ROBERT W. BIGGS
303/259-1930

2803 MESA DRIVE
DURANGO, CO. 81301

MEMORANDUM

Date: July 22, 1982

To: Tom Perry, Bureau of Indian Affairs, Window Rock, Arizona 86515
J. E. Taylor, ARCO Oil and Gas Company, Post Office Box 2197,
Farmington, New Mexico 87401

From: Robert W. Biggs, Archaeological Consultants, 2803 Mesa Drive,
Durango, Colorado 81301

Subject: Cultural Resource Survey for ARCO OIL AND GAS COMPANY'S
Proposed English WN Nos. 37, 37-D, and 38 Well Sites and Access
Roads.

Enclosed are the required number of copies of the reports for the cultural resource survey on the above listed projects conducted July 15 and July 20, 1982. The surveyed areas are located on property under the jurisdiction of the Navajo Nation. No cultural resources are endangered by any of the proposed activities.

I hereby certify that the field work and report preparation were carried out by a qualified archaeologist and, to the best of my knowledge, meet the applicable Historic Preservation Laws and FEO 11593.

ROBERT W. BIGGS, Director
Archaeological Consultants

Navajo Nation Antiquities Permit No. 1982-17
Federal Antiquities Permit No. 82-AZ/NM/UT-245

Enclosures

cc: Russell Fehr, Cultural Resource Management Program Office, Navajo
Nation, Post Office Box 689, Window Rock, Arizona 86515

Exhibit 8

SURVEY OF CULTURAL RESOURCES
FOR ARCO OIL AND GAS COMPANY'S
PROPOSED ENGLISH WN NO. 38 WELL SITE AND ACCESS ROAD
NAVAJO RESERVATION, UTAH

Prepared by

Jamie A. Karlson
Senior Staff Archaeologist
ARCHAEOLOGICAL CONSULTANTS
Robert W. Biggs, Principal Investigator
Durango, Colorado 81301

July 21, 1982

Prepared for

ARCO OIL AND GAS COMPANY
Farmington, New Mexico 87401

Navajo Antiquities Permit No. 1982-17
Federal Antiquities Permit No. 82-AZ/MN/UT-245

SURVEY OF CULTURAL RESOURCES
FOR ARCO OIL AND GAS COMPANY'S
PROPOSED ENGLISH WN NO. 38 WELL SITE AND ACCESS ROAD
NAVAJO RESERVATION, UTAH

A survey of archaeological and historical resources was conducted for ARCO Oil and Gas Company's proposed English WN No. 38 well site and access road. The proposed well site is located 660 feet FSL and 1980 feet FEL in the SW $\frac{1}{4}$ of the SE $\frac{1}{4}$ of Section 22, Township 43 South, Range 22 East (unsurveyed township), Salt Lake Meridian, San Juan County, Utah, UTM center point: 12: 634850E 4099100N (see attached map). The proposed access road, as detailed on the map, is approximately 150 feet long, and crosses portions of the SW $\frac{1}{4}$ of the SE $\frac{1}{4}$ of Section 22 from an existing road (UTM coordinates: 12: 634125E 4099100N). The proposed location and access road are situated on property owned by the Navajo Nation.

On July 15, 1982, Jamie A. Karlson, Senior Staff Archaeologist for Archaeological Consultants, accompanied Glenn Hagins and Otto Degner of ARCO Oil and Gas Company, and Gerald Huddleston, surveyor for Powers Elevation, to the staked location and flagged access route should the presence of cultural resources necessitate moving the location center stake or access road.

On July 20, 1982, Jamie A. Karlson accompanied a general inspection team to the location should the Navajo Nation, Bureau of Indian Affairs, or Minerals Management Services require changes in the location or access route. The inspection team included: Lorraine Thomas of the Navajo Nation, Land Development; Lori LeMaris and Carlos Salazar of the Bureau of Indian Affairs, Farmington office; Marcia Petta of the Mineral Management Services; Otto Degner of ARCO Oil and Gas Company; Danny Woods of W and C Construction; Mike Heizer of Heizer Construction; and Frank Rosenbaum of Rosenbaum Construction, and Glen Benfield of the Atchison Construction .

The inspection was conducted in order to comply with legal provisions contained in the Act for Preservation of American Antiquities of 1906 (34 Stat. 225, 16, U.S.C. 431 et seq.); the National Environmental Policy Act of 1969 (83 Stat. 852, 42, U.S.C. 431 et seq.), and Federal Executive Order 11593.

The survey was conducted under the terms of the Navajo Antiquities Permit No. 1982-17 and the Federal Antiquities Permit No. 82-AZ/MN/UT-245.

ENVIRONMENTAL DESCRIPTION

The proposed well site and access road are situated in gently rolling foothills along the southern base of Boundary Butte Mesa. The flora consists of blackbrush, Mormon tea, broom snakeweed, Indian ricegrass with yucca, rabbitbrush, and buffaloberry. The soils are aeolian sand.

SURVEY METHODS

Areas extending 25 feet on both sides of the flagged access route and an area 400 feet x 400 feet area around the proposed location were walked and examined for surface evidence of archaeological and historical resources which would be subject to direct impacts by the preparation of the drilling pad, pits, access road, or drilling activities. An approximate total of 3.8 acres was examined in conjunction with this survey, while adjacent areas were given a cursory inspection for cultural resources which might be subject to indirect impacts from construction or drilling activities.

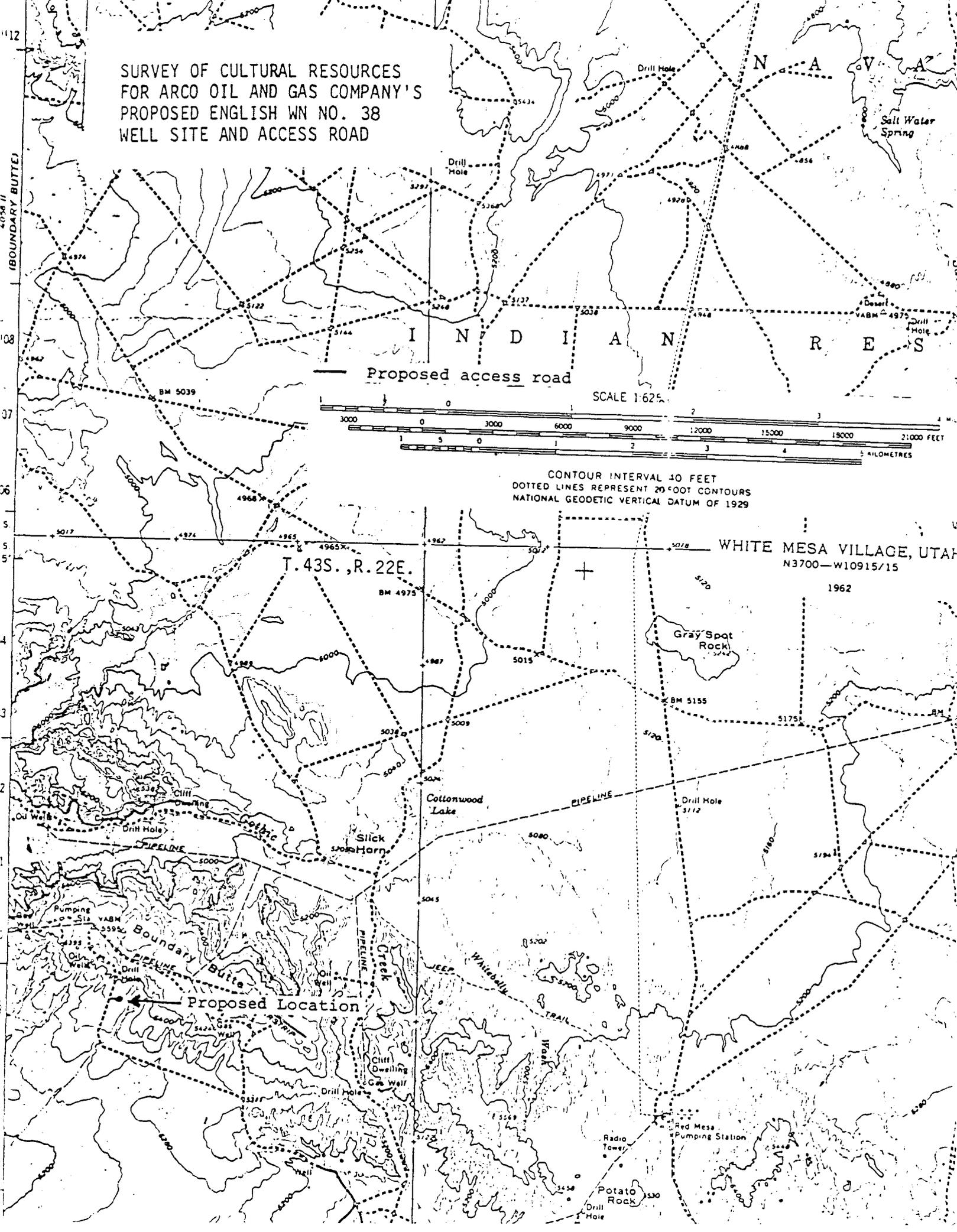
RESULTS OF SURVEY

No surface evidence of archaeological or historical resources was found at the proposed location or along the access route. No evidence of cultural resources in adjacent areas was found which might be subject to indirect impacts from the preparation of the well site or from drilling activities. No sites listed in the National Register of Historic Places are within the proximity of the work area.

RECOMMENDATIONS

Since no evidence of archaeological or historical resources which would be endangered by well site preparation or drilling activities was found at the location or along the access road, no further action is deemed necessary. Should subsurface archaeological materials be encountered during preparation of the well site or construction of the access road, it is recommended that further work be halted in the area of these finds and that the Cultural Resource Management Program office of the Navajo Nation be notified immediately. Further construction in the area of the finds should be suspended until the materials are examined and evaluated by a qualified archaeologist.

SURVEY OF CULTURAL RESOURCES
FOR ARCO OIL AND GAS COMPANY'S
PROPOSED ENGLISH WN NO. 38
WELL SITE AND ACCESS ROAD



Proposed access road

SCALE 1:62,500



CONTOUR INTERVAL 40 FEET
DOTTED LINES REPRESENT 20 FOOT CONTOURS
NATIONAL GEODETIC VERTICAL DATUM OF 1929

WHITE MESA VILLAGE, UTAH
N3700—W10915/15
1962

T. 43S., R. 22E.

Proposed Location

The Long

16
Release
8-24-87
MEL

**** FILE NOTATIONS ****

DATE: 8-16-82

OPERATOR: ARCO OIL & GAS - ATLANTIC RICHFIELD

WELL NO: ENGLISH WN #37 (BOUNDARY BUTTE FIELD)

Location: ^{SUSE} Sec. 22 T. 43E R. 22E County: SAN JUAN

File Prepared:

Entered on N.I.D:

Card Indexed:

Completion Sheet:

API Number 43-037-30805

CHECKED BY:

Petroleum Engineer: _____

Director: _____

Administrative Aide: Indian lease & bond. Spacing approved as noted.

APPROVAL LETTER:

Bond Required: Indian

Survey Plat Required:

Order No. _____

O.K. Rule C-3

Rule C-3(c), Topographic Exception - company owns or controls acreage within a 660' radius of proposed site YES

Lease Designation Indian

Plotted on Map

Approval Letter Written

Hot Line

P.I.

ARCO Oil and Gas Company
Rocky Mounta District
717-17th Street
Mailing address: P.O. Box 5540
Denver, Colorado 80217
Telephone 303 575 7000



August 20, 1982

State of Utah
Natural Resources and Energy
Division of Oil, Gas and Mining
4241 State Office Building
Salt Lake City, Utah 84114

ATTENTION: Mr. Norm Stout

Dear Mr. Stout:

Regarding ARCO's APD for the English WN #37, we are hereby **requesting exception to rule C-3**, part (b) of the Utah Oil and Gas Conservation Act, rules, regulations, practice and procedure, requiring that no oil or gas well, unless covered by a special area spacing rule, shall be located within 4960' from any gas well.

Attached is a letter justifying our need for this unorthodox location based on geologic conditions. The ownership of all oil and gas leases within a radius of 660' of the proposed location of this well (English WN #37) is common with the ownership of the oil and gas leases under this proposed location. Such leases are jointly owned by ARCO Oil and Gas Company 50%, Tenneco 12.5%, and Conoco 37.5%. Pursuant to that certain Operating Contract dated March 1, 1948, by and between Byrd-Frost, Inc. and Western Natural Gas Company, et. al., as amended, Atlantic Richfield Company has acquired the operating rights in and to the subject Navajo Indian Tribal lease where subject well is to be located. Atlantic Richfield Company's designation as operator for said lease gives it control of the acreage within a 660' radius of the proposed non-standard location and renders adjoining interest owner approval unnecessary.

Also attached are a topographic map showing the proposed location and the other three gas wells within the 4960' radius, and a lease boundary map showing the same.

Sincerely,


W. A. Walther, Jr.

Attachment

WAW/PT/dc

ARCO Oil and Gas Company
Rocky Mountain District
Post Office Box 5540
Denver, Colorado 80217
Telephone 303 575 7004
J. G. Bradshaw
Manager
Engineering



August 20, 1982

Mr. Norm Stout
State of Utah
Natural Resources & Energy
Div. of Oil, Gas and Mining
4241 State Office Building
Salt Lake City, Utah 84114

Dear Mr. Stout:

The proposed English WN #37 Paradox test is within 4960' of the English WN #1, English WN #10, and English WN #11. Our mapping shows we should encounter attractive reservoir characteristics in all main objective horizons at this location. Algal development in the Ismay, Desert Creek, and Akah all favorably overlap here. This is the most promising area for encountering commercial amounts of hydrocarbons on the English Lease.

Also, note the English #1 and #10 are producing casing gas. This is used to fire the heaters for treating the Coconino oil production.

Very truly yours,

A handwritten signature in cursive script that reads "C. F. Davis".

C. F. Davis
Operations/Analytical Engineer

CFD/sh

White Mesa
Village Quad 4102
Utah
(enlarged version)

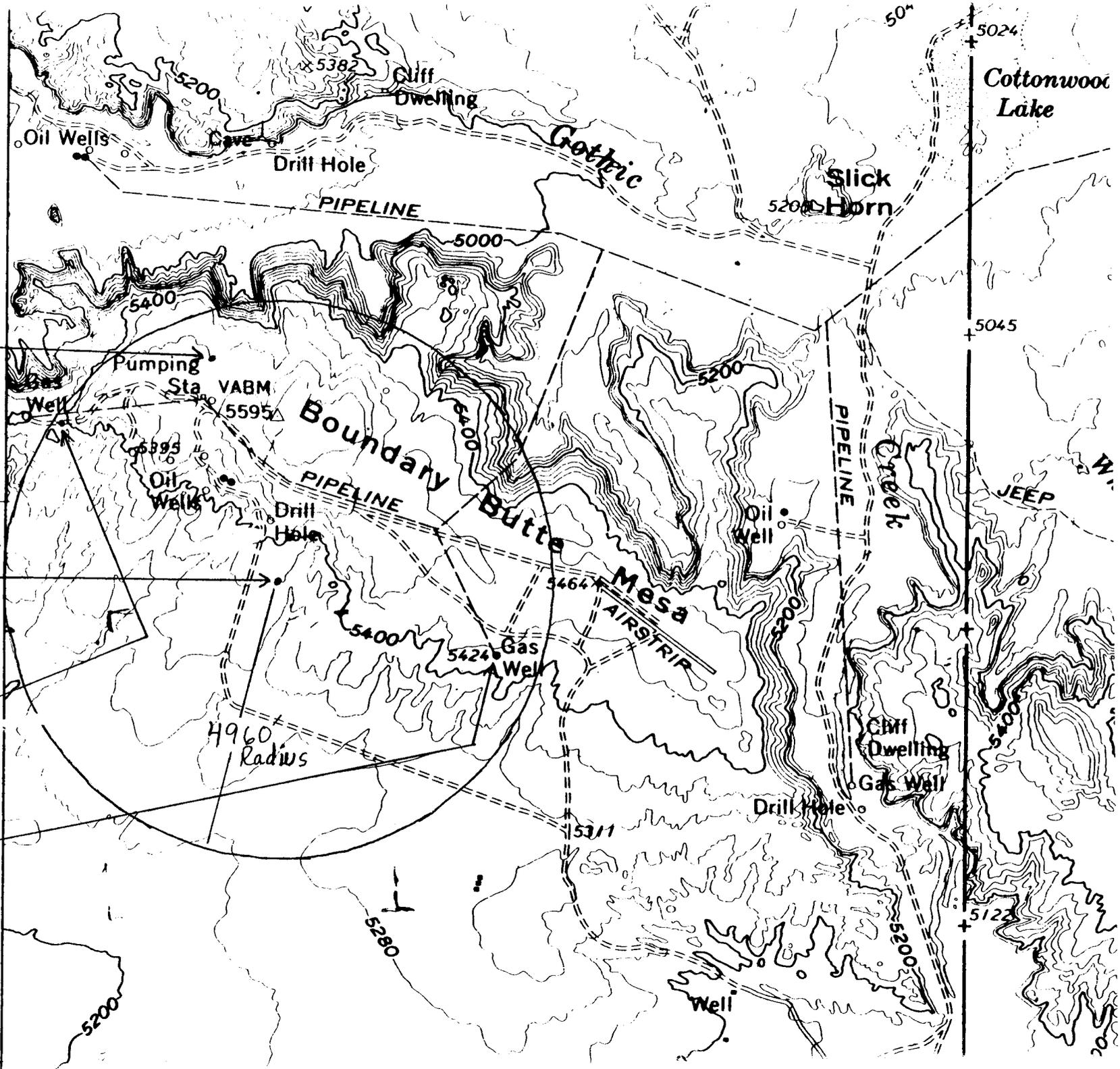
Scale 1" = ± 2294'

English #1
660' FNL + 1980' FWL
Sec 22-435-22E

English WN #37
Proposed Location
610' FSL + 1940' FEL
Sec 22-435-22E

English #10
1880' FNL + 760' FEL
Sec 21-435-22E

English #11
560' FNL + 1980' FWL
Sec 26-435-22E



130 000

Exhibit #3

ENGLISH Lease
ARCo. 1/2 Opr.
Conoco et al 1/2

Navajo Indian Lease # I-149-IND-7180

English #1

Proposed
Pennsylvania Test
Well Location
610' FSL + 1940' FEL
Sec 22-T435-R22E

ENGLISH Lease
ARCo. 1/2 Opr.
Conoco et al 1/2

BOUNDARY BUTTE

English #11

RABBIT EARS

English #10

I-149 INDIAN 7601

I-149 INDIAN 7180

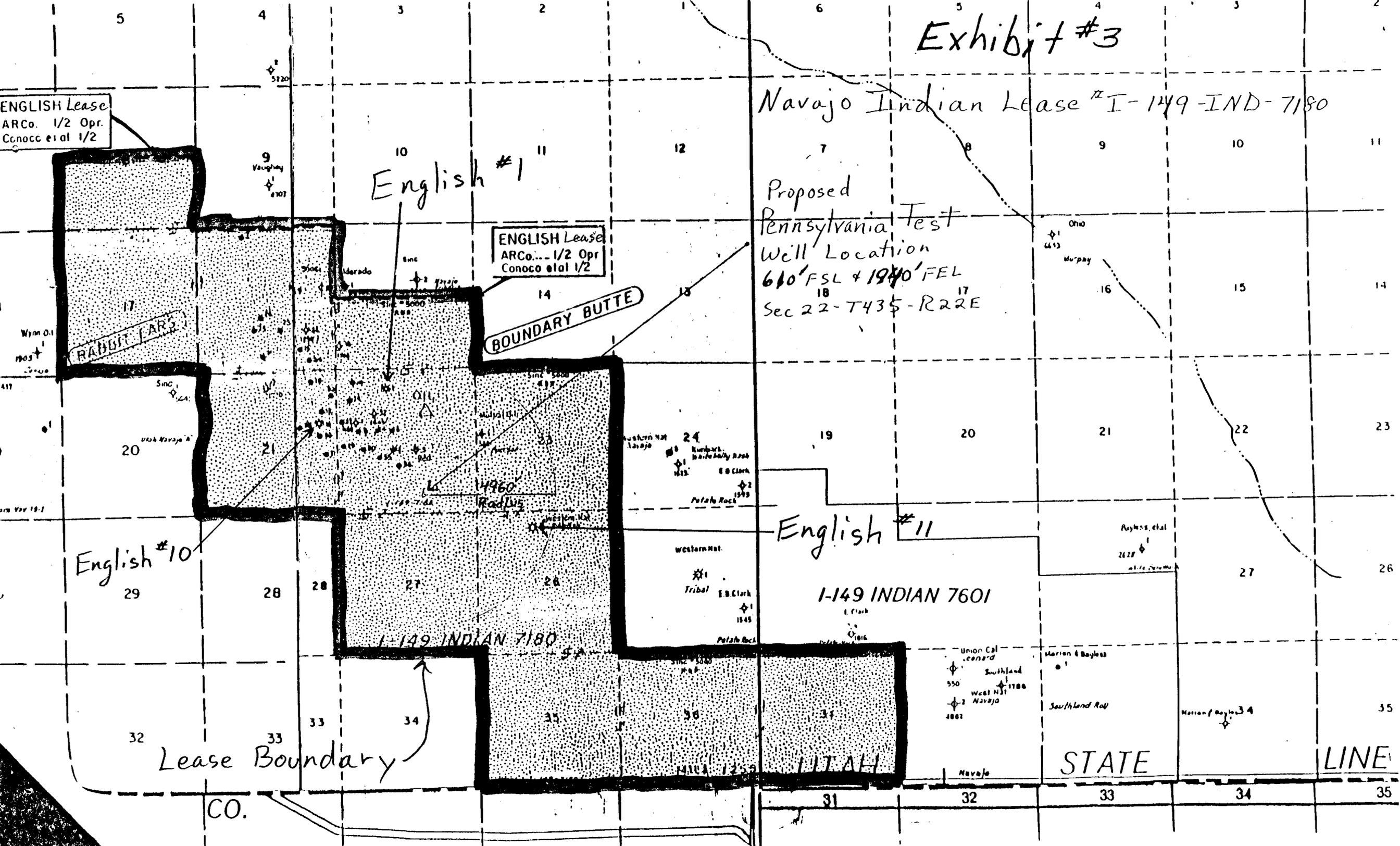
Lease Boundary

STATE

LINE

CO.

UTAH



8-16-82 - Ypm

Talked to Pete Suppitts (Engineer - 303-575-7031) and requested topographic map showing lease boundaries, and plot of gas wells within 4960' radius of # 37. He said a letter requesting exception, the requested map, and any pertinent 660' lease info would be sent in a few days. Waiting for C-3-c info

8-24-82 - Ypm

Director Feight advises that due to demand acreage lease from the tribe, and because of wider spacing exceptions for English #'s 10 and 1, the spacing exception should be approved, and a request for 320 acre spacing might be brought before the Board at a later date. The tribe has required the drilling in order for NACO to return the lease

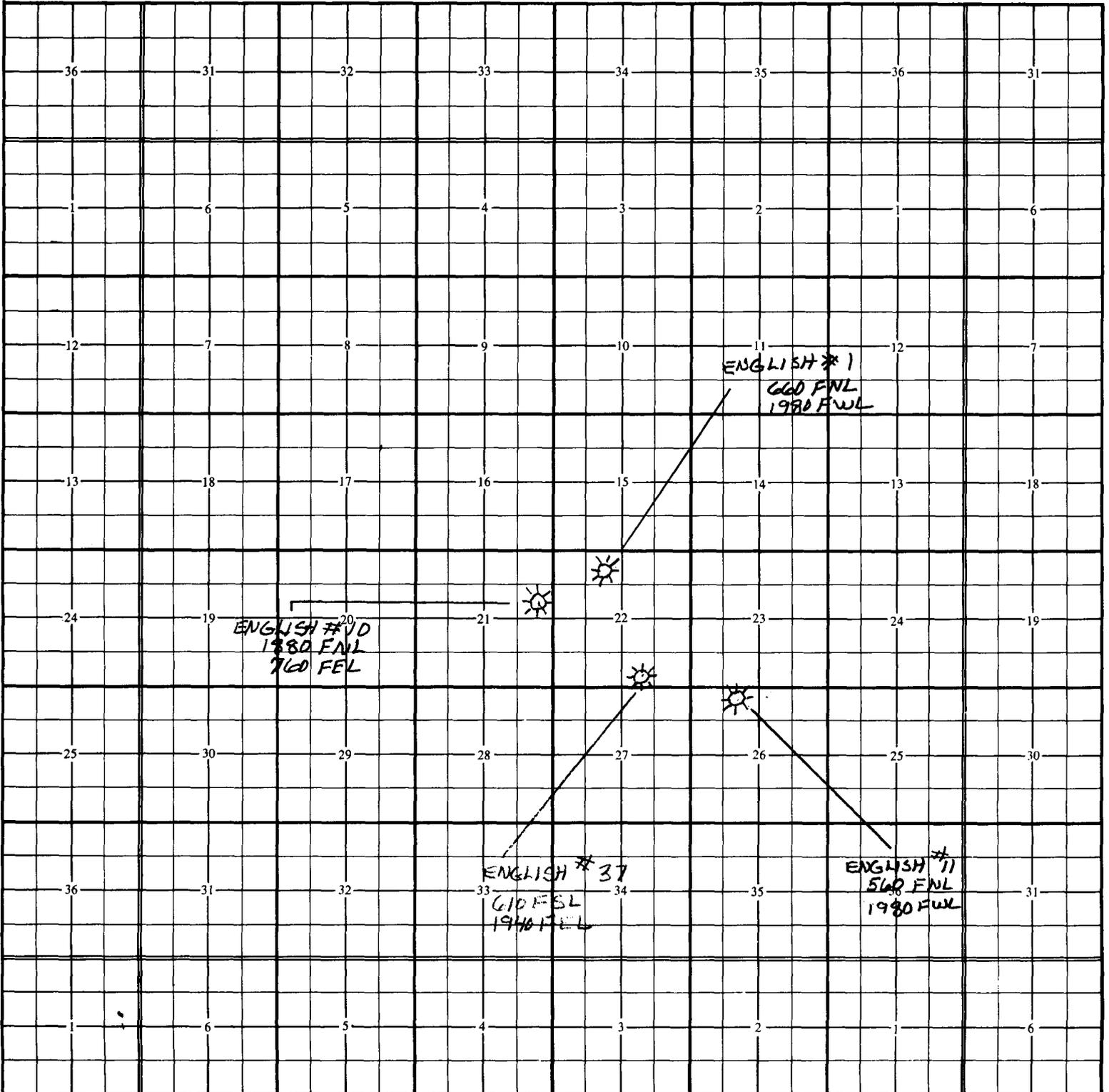
PETE TIPPETTS
303-575-7064

TOWNSHIP PLAT

Owner ARCO - ENGLISH WN# 37 (GAS) Date 8-24-82

Township 43 S Range 22 E County SAN JUAN

SWSE 22 - 610' FSL, 1940 FEL



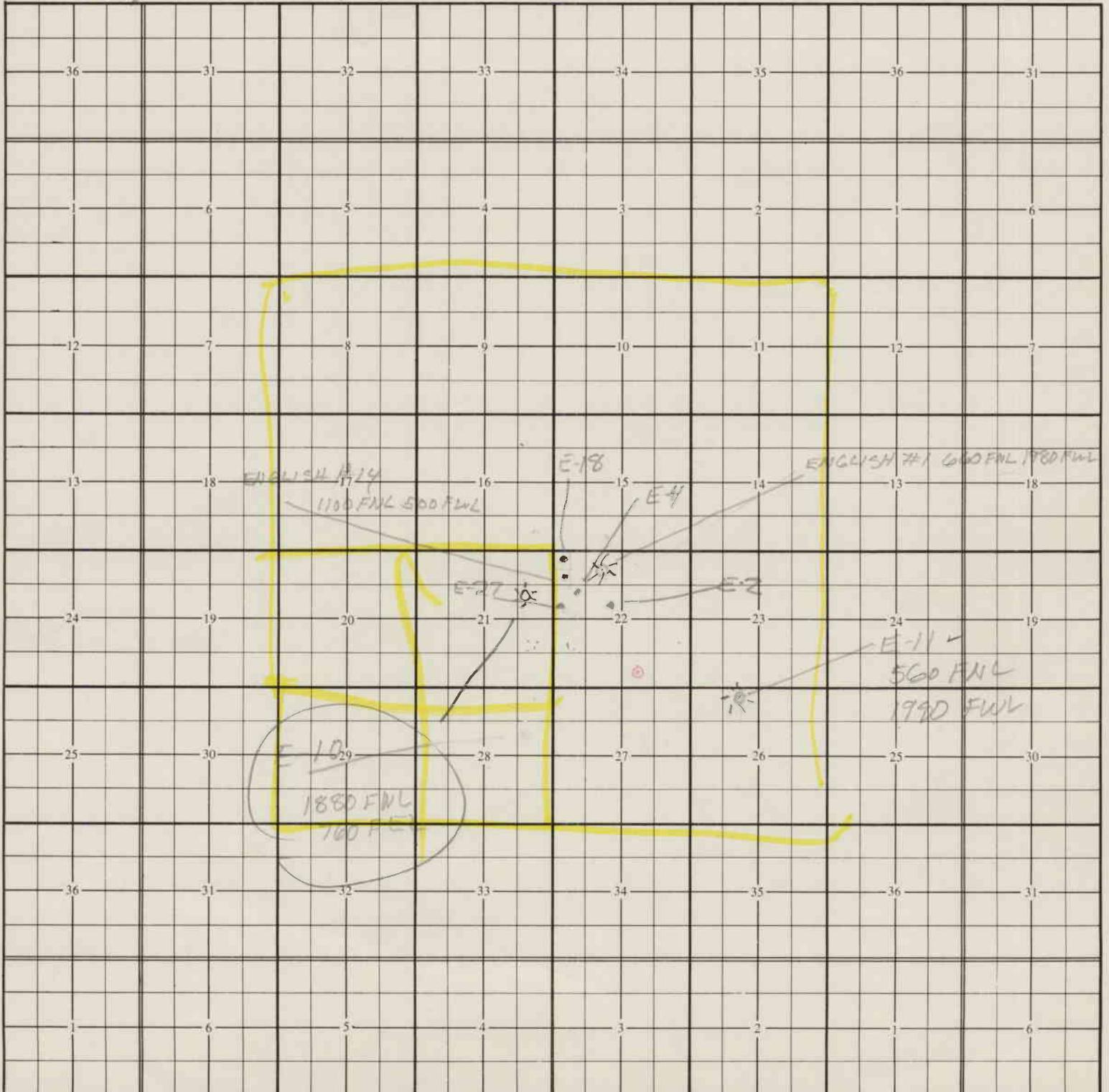
TOWNSHIP PLAT

Owner _____ Date _____

Township 435 Range 22E County SAN JUAN

PETE TIPATS

SEC 22



August 24, 1982

Arco Oil & Gas Company
Division of Atlantic Richfield
P. O. Box 5540
Denver, Colorado 80217

RE: Well No. English WN #37
SWSE Sec. 22, T. 43S, R. 22E
San Juan County, Utah

Gentlemen:

Insofar as this office is concerned, approval to drill the above referred to gas well on said unorthodox location is hereby granted in accordance with Rule C-3(c), General Rules and Regulations and Rules of Practice and Procedure.

Should you determine that it will be necessary to plug and abandon this well, you are hereby requested to immediately notify the following:

RONALD J. FIRTH - Engineer
Office: 533-5771
Home: 571-6068

OR

CLEON B. FEIGHT - Director
Office: 533-5771
Home: 466-4455

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (aquifers) are encountered during drilling. Your cooperation in completing this form will be appreciated.

Further, it is requested that this Division be notified within 24 hours after drilling operations commence, and that the drilling contractor and rig number be identified.

The API number assigned to this well is 43-037-30805.

Sincerely,



Norman C. Stout
Administrative Assistant

NCS/as
cc: Minerals Management Service (SLC)
Minerals Management Service (Farmington, NM)
Enclosure

ARCO Oil and Gas Company
Rocky Mountain District
Post Office Box 5540
Denver, Colorado 80217
Telephone 303 575 7004
J. G. Bradshaw
Manager
Engineering



August 25, 1982

Mr. Norm Stout
State of Utah
Natural Resources and Energy
Division of Oil, Gas and Mining
4241 State Office Building
Salt Lake City, Utah 84114

Re: Proposed English WN #37 Well on
Navajo Tribal Lease No. I-149-IND-7180
San Juan County, Utah

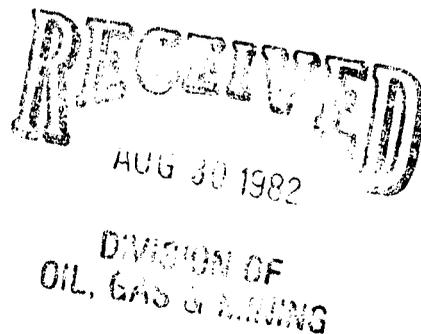
Dear Mr. Stout:

The proposed English WN #37 Paradox test well will be on acreage presently under a development drilling demand dated March 22, 1982, from the Minerals Management Service. ARCO Oil and Gas Company filed a timely appeal of that letter, and further requested a stay/suspension pending appeal of that decision from the Director, MMS. A stay was granted on the demand pending resolution of the issue in court. We wish to go ahead and drill the well cognizant of these facts.

Very truly yours,

C. F. Davis
Operations/Analytical Engineer

CFD/sh



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well gas well other

2. NAME OF OPERATOR ARCO Oil and Gas Company
Division of Atlantic Richfield Company

3. ADDRESS OF OPERATOR
P. O. Box 5540, Denver, Colorado 80217

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 610' FSL & 1940' FEL
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH: Approx the same

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:		SUBSEQUENT REPORT OF:
TEST WATER SHUT-OFF	<input type="checkbox"/>	<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>	<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>	<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>	<input type="checkbox"/>
PULL OR ALTER CASING	<input type="checkbox"/>	<input type="checkbox"/>
MULTIPLE COMPLETE	<input type="checkbox"/>	<input type="checkbox"/>
CHANGE ZONES	<input type="checkbox"/>	<input type="checkbox"/>
ABANDON*	<input type="checkbox"/>	<input type="checkbox"/>
(other)	<input checked="" type="checkbox"/>	

CHANGES TO APD!

5. LEASE
I-149-IND-7180

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Navajo

7. UNIT AGREEMENT NAME
English Unit

8. FARM OR LEASE NAME

9. WELL NO.
English WN #37

10. FIELD OR WILDCAT NAME
Boundary Butte

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
22-43S-22E

12. COUNTY OR PARISH
San Juan

13. STATE
Utah

14. API NO.
43-037-30805

15. ELEVATIONS (SHOW DF, KDB, AND WD)
5350'

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Total depth on this well is amended to read 5220' instead of 4255'.

On Ten Point Drilling Plan, Item 4 Proposed Casing Program, the production string interval is amended to read 0' - 5220' instead of 400' - 5220'; section length is amended to read 5220' instead of 4820'.

All other items remain as originally submitted and approved on APD by Errol Becher 9-7-82.

NOTE: These were clerical errors, not a change in scope.

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED WA Walther, Jr. TITLE Acting District Manager DATE 9-28-82
W. A. Walther, Jr.

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well gas well other: _____

2. NAME OF OPERATOR ARCO Oil and Gas Company,
Division of Atlantic Richfield Company

3. ADDRESS OF OPERATOR

P.O. Box 5540, Denver, Colorado 80217

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)

AT SURFACE: 610' FNL & 1940' FEL

AT TOP PROD. INTERVAL:

AT TOTAL DEPTH: Approximately the same

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

- TEST WATER SHUT-OFF
- FRACTURE TREAT
- SHOOT OR ACIDIZE
- REPAIR WELL
- PULL OR ALTER CASING
- MULTIPLE COMPLETE
- CHANGE ZONES
- ABANDON*

SUBSEQUENT REPORT TO:

-
-
-
-
-
-
-
-

(other) No spud & set surf. casing

5. LEASE
I-149-IND-7180

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Navajo

7. UNIT AGREEMENT NAME
English

8. FARM OR LEASE NAME

9. WELL NO.
English WN 37

10. FIELD OR WILDCAT NAME
Boundary Butte

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
22-43S-22E

12. COUNTY OR PARISH
San Juan

13. STATE
Utah

14. API NO.
43-037-30805

15. ELEVATIONS (SHOW DF, KDB, AND WD)

RECEIVED
OCT 14 1982
DIVISION OF OIL, GAS & MINING

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

MI & RU Brinkerhoff Rig 79. SPUD 12-1/4" hole at 12:30 p.m. 10/6/82. Drld to 410'. RU & ran 10 jts 8-5/8", K-55, 24# csg & set at 410'. Circd hole. Cmt'd w/300 sx Cl "B" w/2% CaCl₂. Full returns w/30 bbls cmt back to surface. Floats held. Cut off csg. Tst'd blind & pipe rams to 1500 psi for 15 mins. - held O.K. Drlg ahead.

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED WA Walther, Jr. TITLE Acting District Manager DATE 10/12/82

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.

1. oil well gas well other

2. NAME OF OPERATOR ARCO Oil and Gas Company
Division of Atlantic Richfield Company

3. ADDRESS OF OPERATOR
P.O. Box 5540, Denver, Colorado 80217

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 610' FNL & 1940' FEL
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH: Approx the same

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

5. LEASE
I-149-IND-7180

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Navajo

7. UNIT AGREEMENT NAME
English

8. FARM OR LEASE NAME

9. WELL NO.
English WN 37

10. FIELD OR WILDCAT NAME
Boundary Butte

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
22-43S-22E

12. COUNTY OR PARISH: 13. STATE
San Juan Utah

14. API NO.
43-037-30805

15. ELEVATIONS (SHOW DF, KDB, AND WD)
5350'

REQUEST FOR APPROVAL TO: SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

PULL OR ALTER CASING

MULTIPLE COMPLETE

CHANGE ZONES

ABANDON*

(other) N.O. setting production casing

RECEIVED
NOV 17 1982

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

DIVISION OF
OIL, GAS & MINING

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Drilled to 5260'. Logged. RU & ran 128 jts 5½", 15.5#, J-55, ST&C casing with DV collar. Circl hole. Cemented 1st stage using 20 bbls chem water, 360 sx 50/50 poz mix + 6% gel (12.2 ppg) and tailed in with 100 sx neat (15.6 ppg). Displaced with 81.3 BW and 41 BM. Bumped plug @ 6:30 pm 10-30-82. Had full returns throughout job. Dropped DV opening bomp and circl'd. Cemented through DV @ 1802' using 20 BW followed by 295 sx 50/50 poz mix + 6% gel (12.2 ppg) & 50 sx neat cement (15.6 ppg). Displaced with 43.3 BW & bumped closing plug with 2500 psi. Good returns throughout job. PD @ 10:35 pm 10-30-82. Released rig 10-31-82. Waiting on completion.

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED W.A. Walther, Jr. TITLE Acting District Manager DATE 11-15-82

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY: _____

3



United States Department of the Interior

MINERALS MANAGEMENT SERVICE

DISTRICT OIL AND GAS OFFICE
POST OFFICE DRAWER 600
FARMINGTON, NEW MEXICO 87401

November 30, 1982

CERTIFIED MAIL

Arco Oil and Gas Company
P. O. Box 5540
Denver, Colorado 80217

Gentlemen:

Reference is made to your well No. 37 English WN, SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 22, T. 43 S., R. 22 E., San Juan County, Utah, lease I-149-IND-7180.

We have received your Sundry Notice for setting and cementing of 5 $\frac{1}{2}$ " production casing. Section 6 of the General Requirements (a copy is attached to your Application for Permit to Drill) requires reporting whether cement circulated to surface or the tops of cement in the casing annulus. Please submit the required information to this office by Sundry Notice (Form 9-331, four copies).

Failure to comply with this request within 15 days of the date of this letter will result in an assessment of penalties pursuant to 25 CFR 171.22. You are further advised that decisions and orders of the Minerals Management Service are subject to appeal pursuant to 25 CFR 171.22.

Sincerely yours,

James F. Sims
District Oil and Gas Supervisor

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen a well back to a different section. Use Form 9-331-0 for such proposals.

1. OIL well GAS well other

2. NAME OF OPERATOR ARCO Oil and Gas Company
Division of Atlantic Richfield Company

3. ADDRESS OF OPERATOR
P. O. Box 5540, Denver, Colorado 80217

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 610' FNL & 1940' FEL
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH: Approx the same

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

5. LEASE I-10-IND-7180

6. IF INDIAN ALLOTTEE OR TRIBE NAME Navajo

7. LEASE AGREEMENT NAME English

8. FARM OR LEASE NAME

9. WELL NO. English WN 37

10. FIELD OR WILDCAT NAME Boundary Butte

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA 22-43S-22E

12. COUNTY OR PARISH 13. STATE San Juan Utah

14. API NO. 43-037-30805

15. ELEVATIONS (SHOW DF, KDB, AND WD) 5350'

REQUEST FOR APPROVAL TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

PULL OR ALTER CASING

MULTIPLE COMPLETE

CHANGE ZONES

ABANDON*

(other) H₂S Plan

SUBSEQUENT REPORT OF

RECEIVED

DEC 00 1982

DIVISION OF OIL, GAS & MINING

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Attached please find the H₂S Contingency Plan which was in effect during the drilling of this well from 10-18-82 through 10-31-82, and again in effect during completion and testing operations which commenced 11-10-82.

Although H₂S was not anticipated, safety equipment and procedures were in effect on 10-18-82. The first indication of H₂S was reported in association with DST #3, in the Lower Desert Creek test interval from 4560'-4610', run on 10-22-82. Samples indicated 4000 ppm H₂S in the flow stream during the initial flow period. This reading, as are other H₂S readings, is suspect at this time due to the presence of mercaptans or thiols. DST #4 in the Akah formation from 4650'-4720' was run on 10-24-82. H₂S was indicated at 200 ppm during the second flow period.

(OVER)

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED J.M. McCarthy TITLE District Drilling Superintendent DATE 12-2-82
I. M. McCarthy
(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

During testing operations, additional sampling and analysis will be performed. Also, we are at present researching the effect of thiols on H₂S detection and monitoring equipment.

The above information was discussed between Bill Bingham, MMS-Farmington, and J.M. McCarthy, ARCO, on 11-16-82.



Standby H₂S Equipment Co.

"Why pay more for compliance"

P.O. BOX 2768 • ODESSA, TEXAS 79760 • PHONE 915/563-3974
P.O. BOX 1407 • CORTEZ, COLO. 81321 • PHONE 303/565-6391

H₂S CONTINGENCY PLAN

DATE: 11-10-82

WELL NAME: English WN #37 T.D. 5260'

LOCATION: Sec 22-43S-22E, San Juan County, Utah

FIELD NAME: Boundary Buttes

H₂S FORMATION: Lower Desert Creek DEPTH: 4575

CONTRACTOR:

Big "A" RIG NUMBER: 17 RIG PHONE: 505-325-5225 Unit 97

DRILLING SUPERINTENDENTS:

Tom Webester Denver MOBILE PHONE: 303-293-7037 HOME PHONE: 303-233-0122

Bill Sartain Denver MOBILE PHONE: 303-293-7035 HOME PHONE: 303-770-7849

OPERATIONS SUPERINTENDENT:

Rip Douglass OFFICE PHONE: 303-565-7210 HOME PHONE: Unit 148

DRILLING ENGINEER:

OFFICE PHONE: _____ HOME PHONE: _____

GEOLOGIST:

OFFICE PHONE: _____ HOME PHONE: _____

- I. Introduction. H₂S is a toxic, poisonous gas that could cause death or injury. The objective of this contingency plan is to provide an organized plan of action for alerting and protecting the public from H₂S exposure in the event a potentially hazardous volume is accidentally released to the atmosphere. This plan should be activated immediately if any such release occurs. The Drilling Superintendent is responsible for initiating and carrying out the plan.

- II. Individual Responsibilities. It is the responsibility of all personnel on the location to familiarize themselves with the procedures outlined in this contingency plan.
 - A. All personnel:
 1. Responsible for his assigned safety equipment.
 2. Responsible for familiarizing himself with the location of all safety equipment.
 3. Responsible for reporting any indications of H₂S to those in the area and to a supervisor.

 - B. Drilling Superintendent:
 1. Responsible for thoroughly understanding and seeing that all aspects of this contingency plan are enforced.
 2. Responsible for implementing all phases of this contingency plan.
 3. Responsible for keeping a minimum of personnel on the location during expected hazardous operations.
 4. Responsible for coordinating all wellsite operations and communications in the event that an emergency condition develops.
 5. Responsible for ensuring that all visitors receive an H₂S safety orientation. A visitor's log will be maintained as well as a list of all personnel on the location after drilling has progressed to the suspected H₂S formation.
 6. Responsible for notifying the drilling office, public safety personnel, regulatory agencies, and the general public of the existence and location of an H₂S release.

- III. Location Layout
 - A. The location of at least two pre-determined safe areas to assemble at in the event of an emergency. These locations should be located 180° to one another, and in the direction of the prevailing winds.

The pre-determined safe areas for this well are:

Area #1: H²S work trailer

Area #2: Power Plant

- B. The location and type of all H₂S detectors. One located at the bell nipple, one located at the shale shaker, and a third one on the rig floor. Indicate here any other additional H₂S detector locations for this well:

TYPE: Gastec detector & tubes LOCATION: Work trailer

Safety man checking for H²S at all time.

- C. The location and type of all air masks. Self-contained breathing apparatus for use by rig personnel for this well will be kept in the following locations:

TYPE: Thirty minute units LOCATION: Work trailer & power plant

Work units

Work trailer

Escape Units

Each man has one

If a cascade system is utilized, indicate the location(s):

TYPE: 10 bottle system LOCATION: Work trailer

- D. The location of wind socks or streamers. The wind direction indicators for this well will be located at:

TYPE: Wind sock LOCATION: Work trailer

Wind sock

Power plant

- E. The location of any other safety equipment used, such as flare guns or bug blowers:

TYPE: Flare gun LOCATION: Work trailer

Resuscitator

Work trailer

- F. The location of all telephones and/or means of communications. The communications for this well will be located at:

TYPE: Mobile Big "A" LOCATION: Pick-up

Mobile Co. man Pick-up

G. Warning Signs

1. "NO SMOKING" signs should be strategically located around the rig and rig location. The following locations are appropriate.
 - a. Doghouse
 - b. Rig floor
 - c. Substructure
 - d. Lower landing of all stairs leading to rig floor
 - e. Mud pits
 - f. Shale shaker
2. "POISON GAS" signs should also be placed at strategic points on the locations. The following locations are appropriate.
 - a. All entrances leading to the location.
 - b. Lower landing of all stairs leading to rig floor.
 - c. All areas around substructure, including mud pits and shale shaker.
 - d. Various points along the perimeter of the radius of exposure.

NOTE: All warning signs should be black and yellow in color and of readable size at a reasonable distance.

IV. Operating Procedures. The following operating procedures will be utilized for drilling in areas with H₂S.

- A. Plan of operation for handling gas kicks and other drilling problems. Any gas kick will be controlled by using approved well control techniques. Upon evidence that ambient H₂S concentrations have reached 20 ppm, all non-essential personnel will be evacuated to pre-designated safe areas. Personnel remaining on the rig floor will continue to control the well as the situation dictates until the area is safe to reenter.

B. Proposed mud program.

DEPTH INTERVAL		WEIGHT (ppg)	FUNNEL VISC. (Sec/Ot)	MEAS. AT 120°F		SOLIDS (%)	Cl- (ppm)
(Ft)	TYPE			PV (cp)	YP (lb/100ft ²)		
0-410'	Spud	8.5	35				
410'-5260'	LSND	8.9-9.3	50-60	13-20	7-12	5-8	10.0 2000

Note: If necessary, approved H₂S scavengers may be used.

C. Special Operations

1. Drill Stem Tests. All drill stem tests must be closed chamber and conducted during daylight hours.
2. Coring. After a core has been cut, circulate bottoms up and monitor for H₂S. If hole conditions (and/or detectors) indicate potentially hazardous conditions, put breathing equipment on 10 stands before core barrel reaches the surface. Breathing equipment will be worn by all personnel while core barrel is pulled, broken out, and opened up, and until a safe atmosphere is indicated.

V. Operating conditions. Operating conditions are defined in three categories. A description of each of these conditions and the required action to take are given below.

A. CONDITION I - NORMAL OPERATING CONDITIONS, POTENTIAL DANGER, OPERATIONS UNDER CONTROL

Characterized by: Normal drilling operations and test operations in zones which contain or may contain H₂S.

Warning flag: Yellow

Alarm: None

Probable occurrence: No detectable gas present at surface.

- General action:
- (1) Know location of safety equipment.
 - (2) Check safety equipment for proper functioning. Keep it available.
 - (3) Be alert for a condition change.
 - (4) Follow instructions of supervisor.

B. CONDITION II - POTENTIAL TO MODERATE DANGER TO LIFE

Characterized by: H₂S gas present. Concentrations less than 20 ppm.

Warning flag: Orange

Alarm: Flashing light at 10 ppm H₂S. Intermittent blasts on horn at 20 ppm H₂S.

Probable occurrence:

- (1) As drill gas
- (2) As trip gas when circulating bottoms up.
- (3) When a core barrel is pulled.
- (4) When a well kick is circulated out
- (5) Surface pressure, well flow or lost returns problems.
- (6) Equipment failure during testing operations.

General action:

- (1) Follow instructions of supervisor
- (2) Put on breathing equipment if directed, or if conditions warrant it.
- (3) Stay in "SAFE BRIEFING AREA" if instructed and not working to correct the problem.
- (4) The Drilling Superintendent will initiate action to reduce the H₂S concentration to zero.

C. CONDITION III - MODERATE TO EXTREME DANGER TO LIFE

Characterized by: H₂S present in concentrations at or above 20 ppm. Critical well operations or well control problems. In the extreme, loss of well control.

Warning flag: Red

Alarm: Flashing light and continuous blast on horn at 20 ppm H₂S.

Probable occurrence:

- (1) As drill gas
- (2) As trip gas when circulating bottoms up.

- (3) When a core k rel is pulled
- (4) When a well kick is circulated out
- (5) Surface pressure, well flow or lost returns problems.
- (6) Equipment failure during testing operations

General action:

- (1) Put on breathing equipment. Move to "SAFE BRIEFING AREA" and remain there if not working to correct or control problems.
- (2) Follow instructions of Drilling Superintendent or other supervisor.
- (3) The Drilling Superintendent will initiate emergency action as provided in the contingency plan and as appropriate to the actual conditions. If testing operations are in progress, well will be shut-in.
- (4) The Drilling Superintendent will conduct any necessary operations with an absolute minimum of personnel. All persons in the immediate area will wear a breathing apparatus. All other personnel will restrict their movements to those directed by the Superintendent.
- (5) If gas containing hydrogen sulfide is ignited, the burning hydrogen sulfide will be converted to sulfur dioxide which is poisonous.

VI. Emergency Procedures. The procedures listed below apply to drilling and testing operations.

- A. If at any time during Condition I, the mud logger, mud engineer, or any other person detects H₂S, he will notify the Drilling Superintendent. All personnel should keep alert to the Drilling Superintendent's orders. He will:
 - 1. Immediately begin to ascertain the cause or the source of the H₂S and take steps to reduce the H₂S concentration to zero. This should include having the mud engineer run a sulfide and pH determination on the flowline mud if water-base mud is in use. If an oil-base mud is in use, the mud engineer should check the lime content of the mud.

2. Order non-essential personnel out of the potential danger area.
 3. Order all personnel to check their safety equipment to see that it is working properly and in the proper location. Persons without breathing equipment will not be allowed to work in a hazard area.
 4. Notify the Contract Supervisor of condition and action taken.
 5. Increase gas monitoring activities (portable H₂S detectors) and continue operations with caution.
 6. Display the orange warning flag.
- B. If the H₂S concentration exceeds 20 ppm, the following steps will be taken.:
1. Put on breathing equipment
 2. Display red flag
 3. Driller - prepare to shut the well in.
 - a. Pick up pipe to get kelly out BOP's
 - b. Close BOP's if necessary.
 4. If testing operations are in progress, the well will be shut-in.
 5. Help anyone who may be affected by gas.
 6. Evacuate quickly to the "SAFE BRIEFING AREA" if instructed or conditions warrant.
- C. In the event a potentially hazardous volume of H₂S is released to the atmosphere, the following steps must be taken to alert the public:
1. Remove all rig personnel from the danger area and assemble at a pre-determined safe area, preferably upwind from the well site.
 2. Alert the drilling office, public safety personnel, regulatory agencies, and the general public of the existence and location of an H₂S release. See List of Emergency Telephone Numbers.
 3. Assign personnel to block any public road (and access road to location) at the boundary of the area of exposure. Any unauthorized people within the area should be informed

that an emergency exists and be ordered to leave immediately.

4. Request assistance from public safety personnel to control traffic and/or evacuate people from the threatened area.

VII. Training Program. All personnel associated with the drilling operations will receive training to insure efficient and correct action in all situations. This training will be in the general areas of: (1) personnel safety, (2) rig operations, and (3) well control procedures.

A. Personnel Safety Training. All personnel shall have received H₂S training in the following areas;

1. Hazards and characteristics of H₂S.
2. Effect on metal components of the system.
3. Safety precautions.
4. Operation of safety equipment and life support systems.
5. Corrective action and shutdown procedures.

B. Rig Operations. All rig personnel shall have received training in the following areas:

1. Well control procedures.
2. Layout and operations of the well control equipment.

NOTE: Proficiency will be developed through BOP drills which will be documented by the Drilling Superintendent.

C. Service Company Personnel. All service personnel shall have been trained by their employers in the hazards and characteristics of H₂S and the operation of safety equipment and life support systems.

D. Visitors. All first time visitors to the location will be required to attend a safety orientation. The Drilling Superintendent shall be responsible for this orientation, and he shall see that every visitor is logged in correctly.

E. Public. The public within the area of exposure shall be given an advance briefing by the Drilling Superintendent. This briefing must include the following elements:

1. Hazards and characteristics of hydrogen sulfide. It is an extremely dangerous gas. It is normally detectable by its "rotten-egg" odor, but odor is not a reliable

means of detection because the sense of smell may be dulled or lost due to intake of the gas. It is colorless, transparent, and flammable. It is heavier than air and may accumulate in low places.

2. The necessity of an emergency action plan. Due to the danger to persons exposed to hydrogen sulfide and the need for expeditious action should an emergency occur, this action plan will be put into effect if and when a leak occurs.
3. The location of hydrogen sulfide within the area of exposure. At the drilling location.
4. The manner in which the public will be notified of an emergency. By telephone or personal contact.
5. Steps to be taken in case of an emergency.
 - a. Abandon danger area.
 - b. Notify necessary agencies and request assistance for controlling traffic and evacuating people.

EMERGENCY PHONE LIST

A. MEDICAL PERSONNEL

1. Ambulance(s): 801-651-3329 or 3414 or 3453 Utah
602-656-3293 Arizona
2. Hospital(s): Southwest Memorial
303-565-3743 Cortez, Colorado
3. Doctors: Jearl F. Frye
303-565-6573 office; 303-882-7317 home
Cortez, Colorado

B. FIREFIGHTING AND PUBLIC SAFETY PERSONNEL

1. Fire Department(s): 602-656-3246 Arizona
2. Police Department(s): 505-368-4383 New Mexico
602-697-3578 Arizona
3. County Sheriff: 602-337-4321 Arizona
801-587-2237 Utah
4. State Police: 602-774-4561 Arizona

C. GOVERNMENT AGENCIES

1. County Health Department: 801-587-2231, Ext. 21 Utah
602-337-4364 Arizona
2. Utah O.S.H.A. 801-533-6401
3. U.S.G.S. New Mexico 505-325-4572
4. _____

D. PERSONNEL

1. Drilling Superintendents: 303-293-7037
303-293-7035
2. Drilling Office: 303-293-1071
3. Drilling Operations Superintendents: On location

3. Drilling Operations Superintendents (continued): _____

4. Division Drilling Manager: Jack M. McCarthy
303-293-7127

5. Drilling Engineer: _____

E. SERVICE COMPANIES:

1. Pump Truck(s): Dowell 303-565-7461
Cortez, CO

2. Dirt Contractor(s): _____

3. Roustabout Crew(s): _____

4. H₂S Service Companies: Standby H²S Equipment
303-565-6391 Cortez

5. Others: _____

NOTE: All entries should be made in the following manner:
NAME - PHONE - LOCATION

(continued on page 3)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

U.S. GEOLOGICAL SURVEY (FOR INFORMATION TO THE FIELD) OF THE DEPARTMENT OF THE INTERIOR
WASHINGTON, D.C. 20508 (FOR INFORMATION TO THE FIELD) OF THE DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT (FOR INFORMATION TO THE FIELD) OF THE DEPARTMENT OF THE INTERIOR

1. Well Gas well other

2. NAME OF OPERATOR ARCO Oil and Gas Company
Division of Atlantic Richfield Company

3. ADDRESS OF OPERATOR
P. O. Box 5540, Denver, Colorado 80217

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 610' FNL & 1940' FEL
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH: Approx the same

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:	SUBSEQUENT REPORT OF:
TEST WATER SHUT-OFF <input type="checkbox"/>	<input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	<input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	<input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	<input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	<input type="checkbox"/>
MULTIPLE COMPLETE <input type="checkbox"/>	<input type="checkbox"/>
CHANGE ZONES <input type="checkbox"/>	<input type="checkbox"/>
ABANDON* <input type="checkbox"/>	<input type="checkbox"/>
(other) <u>Top of cement</u>	

5. LEASE
I-149-IND-7180

6. IF INDIAN ALLOTTEE OR TRIBE NAME
Navajo

7. LANGUAGE NAME
English

8. FIRM OR LEASE NAME

9. WELL NO.
English WN 37

10. FIELD OR WILDCAT NAME
Boundary Butte

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
22-43S-22E

12. COUNTY OR PARISH: 13. STATE
San Juan Utah

14. API NO.
43-037-30805

15. ELEVATIONS (SHOW DF, KDS, AND WD)
5350'

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Calculated cement tops for 5½" casing:

1st stage - TOC 3900'

2nd stage DV collar @ 1734' TOC 1200'

RECEIVED

DEC 10 1982

**DIVISION OF
OIL, GAS & MINING**

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED W. A. Walther, Jr. TITLE Acting District Manager DATE 12-8-82

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well gas well other

2. NAME OF OPERATOR ARCO Oil and Gas Company
Division of Atlantic Richfield Company

3. ADDRESS OF OPERATOR
P. O. Box 5540, Denver, Colorado 80217

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 610' ENL & 1940' FEL
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH: Approx the same

5. LEASE
I-149-IND-7180

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Navajo

7. UNIT AGREEMENT NAME
English

8. FARM OR LEASE NAME

9. WELL NO.
English WN 37

10. FIELD OR WILDCAT NAME
Boundary Butte

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
22-43S-22E

12. COUNTY OR PARISH | 13. STATE
San Juan | Utah

14. API NO.
43-037-30805

15. ELEVATIONS (SHOW DF, KDB, AND WD)
5350'

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

PULL OR ALTER CASING

MULTIPLE COMPLETE

CHANGE ZONES

ABANDON*

(other) H₂S Plan Map

SUBSEQUENT REPORT OF:

DEC 20 1982

(NOTE: Report results of multiple completion or zone change on Form 9-330.)
DIVISION OF OIL GAS & MINING

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Attached is a map for inclusion in the H₂S Plan that was submitted to your office on 12-2-82.

Per conversation between Mr. Elliot, MMS, and Mr. McCarthy, ARCO on 12-8-82.

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED J. M. McCarthy TITLE District Drilling Superintendent DATE 12-17-82
(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL IF ANY:

**UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY**

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well gas well other

2. NAME OF OPERATOR ARCO Oil and Gas Company
Division of Atlantic Richfield Company

3. ADDRESS OF OPERATOR
P. O. Box 5540, Denver, Colorado 80217

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 610' FNL & 1940' FEL
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH: Approx the same

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF	<input type="checkbox"/>		<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>		<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>		<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>		<input type="checkbox"/>
PULL OR ALTER CASING	<input type="checkbox"/>		<input type="checkbox"/>
MULTIPLE COMPLETE	<input type="checkbox"/>		<input type="checkbox"/>
CHANGE ZONES	<input type="checkbox"/>		<input type="checkbox"/>
ABANDON*	<input type="checkbox"/>		<input type="checkbox"/>
(other) N.O. PERF AND ACIDIZE	<input type="checkbox"/>		<input type="checkbox"/>

5. LEASE
I-149-IND-7180

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Navajo

7. UNIT AGREEMENT NAME
English

8. FARM OR LEASE NAME

9. WELL NO.
English WN 37

10. FIELD OR WILDCAT NAME
Boundary Butte

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
22-43S-22E

12. COUNTY OR PARISH | 13. STATE
San Juan | Utah

14. API NO.
43-037-30805

15. ELEVATIONS (SHOW DF, KDB, AND WD)
5350'

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

MI & RU Big A Well Service 11-9-82. Drilled cement to DV collar @ 1734'. Drilled DV and circl'd hole clean. Ran CBL. Perf'd @ 5204,05,06,07,08,09,10,11,12,13 & 14 with 4 - 0.32" diameter holes per foot. Spotted 15% acid across perfs and acidized with 800 gals 15% HCL. Swabbed. Perf'd 4995,96,97,98,5062,63,64,65,66,67,68,5146,47,48,49,50,51,52,53,54,55 & 56 with 4 - 0.32" diameter holes per foot. Set retrievable BP @ 5190' and dumped 10 gals 20/40 sand down casing. Spotted 6 bbls 15% HCL across perfs. Pumped 1750 gals 15% HCL acid with 120 ball sealers. Swabbed. Pull BP. Set CIBP @ 4975'. Perf'd 28 holes - 0.32" diameter @ 4926'-4933' with 4 holes per foot. Spotted 3 bbls 15% HCL acid across perfs. Pumped in 625 gals 15% HCL with 50 ball sealers and 15 bbls flush. (OVER)

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED W A Walther, Jr. TITLE Acting District Manager DATE 1-12-83
W A Walther, Jr.
(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

Swabbed. Set cement retainer @ 4880'. Spotted 75 sx Class "B" neat and stung back into retainer and squeezed perfs 4925'-4933' with + 8 bbls. With 7 bbls cement left in tubing, pulled out of retainer leaving approximately 20' cement atop retainer. Perf'd 4564'-4584' with 4 SPF - 80 holes. Spotted 3 bbls 15% HCL across perfs. Pumped in 1575 gals HCL and 140 ball sealers. Swabbed. Set CIBP @ 4550'. Perf'd 68 holes @ 4496,97,98,99,4500,01,02,03,04,05,06,07,08,10,11,12,13,14,15 - 0.32" diameter. Spotted 3 bbls 15% HCL across perfs. PI 1350 gals 15% HCL and 100 balls. Displ with 2% KCL wtr acid. Swabbed. Set tubing @ 4377.43'. Released Completion Unit @ 10:00 am 11-26-82.

WELL TEMPORARILY ABANDONED - WAITING ON GAS MARKET

UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE*

(See her instructions on reverse side)

Form approved. Budget Bureau No. 42-R355.5

5. LEASE DESIGNATION AND SERIAL NO.

I-149-IND-7180

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

Navajo

7. UNIT AGREEMENT NAME

English

8. FARM OR LEASE NAME

9. WELL NO.

English WN 37

10. FIELD AND POOL, OR WILDCAT

Boundary Butte

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA

22-43S-22E

12. COUNTY OR PARISH San Juan

13. STATE Utah

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WELL: OIL WELL [] GAS WELL [] DRY [] Other TEMPORARILY SUSPENDED

b. TYPE OF COMPLETION: NEW WELL [X] WORK OVER [] DEEP-EN [] PLUG BACK [] DIFF. RESVR. [] Other

2. NAME OF OPERATOR ARCO Oil and Gas Company, Division of Atlantic Richfield Company

3. ADDRESS OF OPERATOR P. O. Box 5540, Denver, Colorado 80217

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface 610' FNL & 1940' FEL At top prod. interval reported below At total depth Approx the same

14. PERMIT NO. DATE ISSUED Errol Becher 9-7-82

15. DATE SPUDDED 10-5-82 16. DATE T.D. REACHED 10-28-82 17. DATE COMPL. (Ready to prod.) TA 11-26-82 18. ELEVATIONS (DF, REB, RT, GR, ETC.)* 5350' GL; 5363' DF; 5364' KB 19. ELEV. CASINGHEAD 5350'

20. TOTAL DEPTH, MD & TVD 5260' 21. PLUG BACK T.D., MD & TVD PB @ 5214' Ret @ 4440' 22. IF MULTIPLE COMPL., HOW MANY* See Below 23. INTERVALS DRILLED BY ROTARY TOOLS 0-5260' CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* IF WELL IS PRODUCED TEMPORARILY SUSPENDED 5204'-5214'; 4995'-5156'; 4926'-4933'; 4564'-4584'; 4496'-4515' 25. WAS DIRECTIONAL SURVEY MADE NO

26. TYPE ELECTRIC AND OTHER LOGS RUN FDC; CNL; BHC; DLL 27. WAS WELL CORED NO

Table with 6 columns: CASING SIZE, WEIGHT, LB./FT., DEPTH SET (MD), HOLE SIZE, CEMENTING RECORD, AMOUNT PULLED. Rows include 8-5/8" 24# 410' 12-1/4" SEE ATTACHED NONE and 5-1/2" 15.5# 5260' 7-7/8" SEE ATTACHED NONE.

Table with 3 columns: LINER RECORD (SIZE, TOP (MD), BOTTOM (MD), SACKS CEMENT*, SCREEN (MD)) and TUBING RECORD (SIZE, DEPTH SET (MD), PACKER SET (MD)). Includes 'NONE' and 'Ret @ 4440' in disp squeeze packer'.

Table with 2 columns: PERFORATION RECORD (Interval, size and number) and ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC. Includes 'SEE ATTACHED'.

Table with 8 columns: PRODUCTION (DATE FIRST PRODUCTION, PRODUCTION METHOD, WELL STATUS, DATE OF TEST, HOURS TESTED, CHOKER SIZE, PROD'N. FOR TEST PERIOD, OIL—BBL., GAS—MCF., WATER—BBL., GAS-OIL RATIO, FLOW, TUBING PRESS., CASING PRESSURE, CALCULATED 24-HOUR RATE, OIL—BBL., GAS—MCF., WATER—BBL., OIL GRAVITY-API (CORR.)). Includes 'SEE ATTACHED'.

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) TEMPORARILY SUSPENDED TEST WITNESSED BY

35. LIST OF ATTACHMENTS 2 of #26 above and Daily Well History

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records SIGNED W. A. Walther, Jr. TITLE Operations Manager DATE 2-8-83

*(See Instructions and Spaces for Additional Data on Reverse Side)

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	MEAS. DEPTH	TOP TRUE VERT. DEPTH
SEE ATTACHED						
				Chinle	592'	
				Shinarump	1186'	
				Mowekopi	1262'	
				Coconino	1475'	
				Organ Rock	1890'	
				Cedar Mesa	2672'	
				Hermosa	3568'	
				Paradox	4296'	
				Ismay	4377'	
				Desert Creek	4490'	
				Akah	4654'	
				Barker Creek	4856'	
				Pinkerton Trail	4977'	
				Molas	5204'	

38. GEOLOGIC MARKERS

37. SUMMARY OF POROUS ZONES:
SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES

**UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY**

SUBMIT IN DUPLICATE*

(See instructions on reverse side)

Form approved.
Budget Bureau No. 42-R355.5.

3
2

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL GAS WELL DRY Other _____

b. TYPE OF COMPLETION: NEW WELL WORK OVER DEEP-EN PLUG BACK DIFF. RESVR. Other _____

2. NAME OF OPERATOR
ARCO Oil and Gas Company, Division of Atlantic Richfield Company

3. ADDRESS OF OPERATOR
P. O. Box 5540, Denver, Colorado 80217

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At surface 610' FNL & 1940' FEL
At top prod. interval reported below
At total depth Approx the same

14. PERMIT NO. DATE ISSUED
Errol Becher 9-7-82

API #43-037-30805

5. LEASE DESIGNATION AND SERIAL NO.
I-149-IND-7180

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Navajo

7. UNIT AGREEMENT NAME
English

8. FARM OR LEASE NAME

9. WELL NO.
English WN 37

10. FIELD AND POOL, OR WILDCAT
Boundary Butte
11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA
22-43S-22E

12. COUNTY OR PARISH
San Juan
13. STATE
Utah

15. DATE SPUDDED 10-5-82	16. DATE T.D. REACHED 10-28-82	17. DATE COMPL. (Ready to prod.) 11-26-82	18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* 5364' KB	19. ELEV. CASINGHEAD 5350' GL
-----------------------------	-----------------------------------	--	---	----------------------------------

20. TOTAL DEPTH, MD & TVD 5260'	21. PLUG, BACK T.D., MD & TVD 4440'	22. IF MULTIPLE COMPL., HOW MANY* See below	23. INTERVALS DRILLED BY 0-5260'	ROTARY TOOLS ---	CABLE TOOLS ---
------------------------------------	--	--	-------------------------------------	---------------------	--------------------

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*
5204'-5214'; 4995'-5156'; 4926'-4933'; 4564'-4584'; 4496'-4515'

25. WAS DIRECTIONAL SURVEY MADE
NO

26. TYPE ELECTRIC AND OTHER LOGS RUN
FDC; CNL; BHC; DLL

27. WAS WELL CORED
NO

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8-5/8"	24#	410'	12-1/4"	SEE ATTACHED PAGE 1	NONE
5-1/2"	15.5#	5260'	7-7/8"	SEE ATTACHED PAGE 1	NONE

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)
NONE				

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2-7/8"	4377.43'	Ret @4440' in disp squeeze packer

31. PERFORATION RECORD (Interval, size and number)

SEE ATTACHED PAGE 1

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
SEE ATTACHED PAGE 1	

33.* PRODUCTION

DATE FIRST PRODUCTION SEE ATTACHED PAGE 2	PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) SEE ATTACHED PAGE 2	WELL STATUS (Producing or shut-in) SHUT IN
DATE OF TEST SEE ATTACHED PAGE 2	HOURS TESTED ---	CHOKE SIZE ---
PROD'N. FOR TEST PERIOD ---	OIL—BBL. ---	GAS—MCF. ---
WATER—BBL. ---	GAS-OIL RATIO ---	
FLOW. TUBING PRESS. SEE ATTACHED PAGE 2	CASING PRESSURE ---	CALCULATED 24-HOUR RATE ---
OIL—BBL. ---	GAS—MCF. ---	WATER—BBL. ---
OIL GRAVITY-API (CORR.) ---		

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)
WAITING ON GAS MARKET

TEST WITNESSED BY

35. LIST OF ATTACHMENTS
2 of #26 above and Daily Well History

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED W.A. Walther, Jr. TITLE Operations Manager DATE 2-23-83
W. A. Walther, Jr.

*(See Instructions and Spaces for Additional Data on Reverse Side)

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments. **Items 22 and 24:** If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

37. SUMMARY OF POROUS ZONES:

SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES

DESCRIPTION, CONTENTS, ETC.

38. GEOLOGIC MARKERS

NAME

MEAS. DEPTH

TOP

TRUE VERT. DEPTH

Chinle	592'	
Shinarump	1186'	
Mowekopi	1262'	
Coonino	1475'	
Organ Rock	1890'	
Cedar Mesa	2672'	
Hermosa	3568'	
Paradox	4296'	
Ismay	4377'	
Desert Creek	4490'	
Akah	4654'	
Barker Creek	4856'	
Pinkerton Trail	4977'	
Molas	5204'	

SEE ATTACHED PAGE 2

28. CEMENTING RECORD

8-5/8" casing cemented with 300 sx (354 cu.ft.) Class "B" with 2% CaCl₂. Full returns with 30 bbls cement back to surface; displaced with 24-1/2 bbls; floats held.

5-1/2" casing cemented with 20 bbls chem water, 360 sx (554 cu.ft.) 50/50 poz mix + 6% gel (12.2 ppg) and tailed in with 100 sx (114 cu.ft.) neat (15.6 ppg). Displaced with 81.3 BW and 41 BM. Bumped plug. Had full returns throughout job. Dropped DC opening bomb and circl. Cemented through DV @ 1802' using 20 BW followed by 295 sx (454 cu.ft.) 50/50 poz mix + 6% gel (12.2 ppg) and with 50 sx (57 cu.ft.) neat cement (15.6 ppg). Displaced with 43.3 BW and bumped closing plug with 2500 psi. Good returns throughout job. PD 10-30-82.

31. PERFORATION RECORD

Pinkerton Trail--

5204,05,06,07,08,09,10,11,12,13 & 14 - 4 0.32" holes per foot

4995,96,97,98,5062,63,64,65,66,67,68,5146,47,48,49,50,51,52,53,54,
55 & 56 - 4 0.32" holes per foot

Barker Creek--

4926,27,28,29,30,31,32 & 33 - 4 0.32" holes per foot

Lower Desert Creek--

4564,65,66,67,68,69,70,71,72,73,74,75,76,77,78,79,80,81,82,83 &
84 - 4 0.32" holes per foot

Upper Desert Creek--

4496,97,98,99,4500,01,02,03,04,05,06,07,08,10,11,12,13,14 & 15 - 4 0.32" holes per foot

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

5204'-5214' Spot 15% HCL acid
5204'-5214' 800 gals 15% HCL acid
5190' 10 gals 20/40 sand
4995'-5156' 6 bbls 15% HCL acid
4995'-5156' 1750 gals 15% HCL acid and 120 ball sealers, displ w/35 bbls 2% KCL wt:
4926'-4933' 3 bbls 15% HCL acid
4926'-4933' 625 gals 15% HCL and 50 ball sealers and 15 bbls flush
4926'-4933' Spot 75 sx Class "B" neat - squeezed
4564'-4584' Spot 3 bbls 15% HCL acid
4564'-4584' 1575 gals HCL and 140 ball sealers
4496'-4515' 3 bbls 15% HCL acid
4496'-4515' 1350 gals 15% HCL acid and 100 ball sealers
4440' E Z Drill cement retainer

33. PRODUCTION

11-11-82 Perfs 5204'-5214' swabbed; flowed to pit 1/2 hr and then to test separator for 1-1/2 hrs. Stabilized @ 1.15 MMCFD thru 1/2" choke, FTHP 190 psi and small amount of water

11-13-82 Perfs 4995'-5156' swabbed; flowed to pit 1 hr and then to test separator for 3 hrs. Flowed through 3/4" choke initially @ 770 MCFD, 138 psi TP and 290 BWPD; 1st hr 1.3 MMCFD, 200 psi TP and 144 BWPD; 2nd hr 1.7 MMCFD, 255 psi TP and 79 BWPD and 3rd hr flowed @ 1.8 MMCFD, 273 psi TP and 55 BWPD

11-17-82 Perfs 4926'-4933' swabbed - estimated 15-20 MCFD

11-19-82 Perfs 4564'-4584' swabbed; flowed to pit 1 hr and 3-1/2 hrs through separator - 1 hr 1.999 MCFD, FTP 340 psi & 192 BWPD; 2nd hr 2.639 MCFD, FTP 364 psi & 73 BWPD; 3-1/2 hrs 2.623 MCFD, FTP 381 psi & 33 BWPD

11-23-82 Perfs 4496'-4515' swabbed a little gas

Tubing set on top of EZ Drill cement retainer @ 4440'

37. DRILL STEM TESTS

DST #1 1466'-1516' Coconino

DST #2 4425'-4525' Desert Creek

DST #3 4560'-4610' Lower Desert Creek

DST #4 4650'-4720' Akah

DST #5 4920'-4959' Barker Creek - tools stuck - misrun

ENGLISH WN #37
SW SE Section 22-43S-22E
San Juan County, Utah

10/6/82 410 Day-1 (410') - WOC (8-5/8 @ 410)
MW: 8.8# Vis: 35 Spud Mud
MI RU. Drld rat & mouse holes. SPUD 1230 hrs 10/5/82. Drld & surveyed to PD. Run 10 jts 8-5/8", K-55, 24#, STC csg w/GS @ 410', insert flt valve @ 385'. RU Nat'l & cmtd w/300 sx Cl "B" w/2% CaCl₂. Full returns, cmt to surf. Flts held. WOC.

10/7/82 849 Day-2 (439') - Drlg. (8-5/8 @ 410)
MW: 8.6# Vis: 34 Pv/Yp: 4/2
Cut off csg & weld on csghd. NU BOPs. Tstd bld rams & chk man to 1500#. PU B#2 & TIH. Tstd pipe rams to 1500#. RIH & drld cmt. Drld & surveyed to PD. Survey: 1-1/2° @ 730'.

10/8/82 1516 Day-3 (667') - Circ f/DST #1. (8-5/8 @ 410)
MW: 8.8# Vis: 38 Pv/Yp: 10/6
Drld to PD, circ & cond hole & prep to run DST.

10/9-11/82 2774 Day-6 (1258') - Drlg. (8-5/8 @ 410)
MW: 8.8# Vis: 42 Pv/Yp: 12/7
Ran DST #1, 1456-1516', rec'd 2400 cc fresh wtr in sample chamber (no show). RIH w/bit & drld to PD. Surveys: 3° @ 1660', 1-3/4° @ 1970', 1-1/4° @ 2350', 2° @ 2664'.

10/12/82 3090 Day-7 (316') - Drlg. (8-5/8 @ 410)
MW: 8.9# Vis: 42 Pv/Yp: 13/7
Drld to PD.

10/13/82 3341 Day-8 (251') - Drlg. (8-5/8 @ 410)
MW: 9.0# Vis: 41 Pv/Yp: 13/6
Drld to PD w/bit trip @ 3247'. Survey: 1-3/4° @ 3294'.

10/14/82 3636 Day-9 (295') - Drlg. (8-5/8 @ 410)
MW: 9.0# Vis: 38 Pv/Yp: 10/6
Drld to PD. Survey: 2° @ 3536'.

10/15/82 3922 Day-10 (286') - Drlg. (8-5/8 @ 410)
MW: 9.1# Vis: 45 Pv/Yp: 15/9
Drld to PD.

ENGLISH WN #37
SW SE Section 22-43S-22E
San Juan County, Utah

- 0/16- 4525 Day-13 (603') - Circ f/DST #2. (8-5/8 @ 410)
18/82 MW: 9.1# Vis: 43 Pv/Yp: 12/8
Drld to PD & circ f/DST #2. Surveys: 4-1/2° @ 4165' & 4258', 4-1/4° @ 4289', 5° @ 4476'.
- 10/19/82 4525 Day-14 (0') - Cutting drlg line. (8-5/8 @ 410)
MW: 9.2# Vis: 53 Pv/Yp: 17/4
Cont'd circ f/DST #2. Sht trip 20 stds - no trouble. Cont'd circ. TOH f/DST #2 w/tite hole. Wsh & rm to btm. Circ & cond hole. TOH w/tite hole. Made up B#5 (RR #3) & TIH w/DCs. Cut drlg line.
- 10/20/82 4525 Day-15 (0') - WO daylight to opn DST. (8-5/8 @ 410)
MW: 9.3# Vis: 55 Pv/Yp: 23/12
FIH w/tite interval @ 1220-1600'. Wsh & rm to btm (45'). Circ & cond hole. TOH, tite @ 1381' & 2020'. TIH & wsh & rm to btm (8'). Circ & cond hole. TOH, tite @ 1352'. PU DST tools. TIH w/DST tools, tite @ 1317'. Make up DST man & flo-prover. WO daylite.
- 10/21/82 4561 Day-16 (36') - Drlg. (8-5/8 @ 410)
MW: 9.3# Vis: 60 Pv/Yp: 24/17
W/pkr set @ 4419' & 4425' WO wtr cushion. Opnd tool w/wk blw @ 6:46 am 10/20/82. Vy wk blw during 15 min IF, and SI f/30 min. Vy wk blw during 1 hr in 2nd flw & dead. SI tool & recorded f/2 hrs FSI. Pld tool loose w/145M#. PU 3 stds & rev'd out 18.5 bbls (1582' equiv) mud & 0.31 bbls (63' equiv) GCM. Rec'd 0.32 CFG & 1550 cc. GCM. RIH w/new BHA, wshd 12' fill & circ out 250 units gas. Drld ahead to PD.
- 10/22/82 4610 Day-17 (49') - RU DST #3 f/lwr Desert Crk. (8-5/8 @ 410)
MW: 9.3# Vis: 52 Pv/Yp: 21/12
Drld to PD. Circ & cond hole. TOH. PU Howco tst tools. TIH. RU surf lines. Prep to opn tst tools @ daylight f/DST #3 (recorded 20 units gas @ 4610').
- 10/23- 4787 Day-20 (177') - Drlg. (8-5/8 @ 410)
25/82 MW: 9.1# Vis: 58 Pv/Yp: 16/12
With pkrs @ 4554-4560', opnd tool @ 0700 hrs 10/22/82 & DST #3 @ Lwr Desert Crk fm (4560') as foll: 4000 ppm H₂S & 280 psi FTP on #24 chk (±1.0 MCFPD). 2 hr FSIP @ 944 psi & 106°F. POH w/DST. RIH w/bit & drld to 4710' & POH f/DST #4 (4650-4720', Akah fm); 200 ppm H₂S & 3.5 psi on #13 chk (±4.0 MCFPD). 2 hr FSIP recorded @ 917 psi & 108°F. POH w/DST, RIH w/bit & BHA. Drld to PD. Surveys: 3-3/4° @ 4681', 3-1/2° @ 4755'.

ENGLISH WN #37
SW SE Section 22-43S-22E
San Juan County, Utah

- 0/26/82 4959 Day-21 (172') - Circ f/DST #5. (8-5/8 @ 410)
MW: 9.1# Vis: 60 Pv/Yp: 20/15
Drld to PD & prep f/DST #5 in Barker Crk fm (4920-4957').
- 0/27/82 4959 Day-22 (0') - W0 daylight to run DST #5. (8-5/8 @ 410)
MW: 9.1# Vis: 60 Pv/Yp: 20/15
Circ, sht trip 20 stds. Wsh 90' to btm, sht trip 20 stds. Wsh 90' to btm,
sht trip 15 stds. Still tite. 5 std sht trip - hole OK. TOH. TIH w/DST
tools.
- 0/28/82 5074 Day-23 (115') - Drlg. (8-5/8 @ 410)
MW: 9.2# Vis: 54 Pv/Yp: 25/17
Unsuccessfully attempted to run DST #5 due to hole condition. RIH w/bit &
BHA. Drld to PD. Survey: 3° @ 4990'.
- 10/29/82 5260 Day-24 (186') - Circ to log. (8-5/8 @ 410)
MW: 9.2# Vis: 60 Pv/Yp: 24/19
Drld to PD w/drlg brk @ 5149-5157'.
- 10/30- 5260 Day-26 TD - W0 completion. (5-1/2 @ 5260)
11/1/82 MW: 9.2# Vis: 60 Pv/Yp: 20/18
Circ & cond mud. POH LD BHA. Schl ran DLL, FDC/GR & Sonic log. Ran 129 jts
5-1/2", 15.5#, J-55, STC csg w/DV @ 1802'. Cmtd 1st stage w/360 sx 50/50
Poz + 6% gel, foll'd by 100 sx neat w/full returns. Opnd DV tool and cmtd
2nd stage w/295 sx 50/50 Poz + 6% gel, foll'd by 50 sx neat. Bmpd plug
w/2500 psi. CIP @ 2235 hrs 10/30/82. Set slips w/18M# tension. Cut &
welded plate atop the csg. ND BOPs & RR 0600 hrs 10/31/82. Survey: 3° @
5110'. (Drop f/report until completion commences.)
- 11/9/82 5260 Day-1 Prep to drl out DV tool.
Blade loc. MI RU Big "A" WS CU 11/8/82. PU bit & 6 - 3-1/2" DCs on 2-7/8"
tbg. PU 18 jts tbg & SDON. (Dropped f/report of 10/30-11/1/82.)
- 11/10/82 5260 Day-2 Prep to fin RIH w/bit & csg scrpr.
PU 2-7/8" tbg. RIH & tag TOC @ 1702'. MU pwr swivel & DO cmt & DV clr @
1734'. Circ hole & POH. LD DC's. RIH w/tbg & tag FC @ 5216'. TOH w/SLM
PU 4-3/4" bit & 5-1/2" csg scrpr & RIH to 3700'. SDON.

ENGLISH WN #37
SW SE Section 22-43S-22E
San Juan County, Utah

- 11/11- 5260
12/82
→ Day-4 PBD: 5214' - Prep to run press bomb on W/L
TIH w/4-3/4" bit & scraper to PBD, rotated w/pwr swivel for 1-1/2 hrss.
Displaced hole w/2% KCL wtr & POH w/bit. Schl ran CBL/CCL/VDL/GR w/1000
psi surface press f/PBD to TOC @ /200'. (DV @ 1730'). Schl perf'd f/
5204'-5214' @ 4 SPF. RIH & set Baker Retrievamatic pkr @ 5123', & tstd
annulus to 2000 psi. Acidized perfs w/800 gals 15% HCL @ 2-2-1/2 BPM w/
2800-2300 psi. ISIP 1800 psi, 5 min SIP 1800 psi, 10 min SIP 1700 psi & 15
min SIP 1650 psi. Swabbed tbg dwn to 4800' & well kicked-off. Flowed well
to pt for 1-1/2 hrs; appeared to have stabilized @ 190 psi FTP (est @ 1.15
MMCF/D Low BTU gas w/small amt wtr & trace of CO₂).
- 11/13- 5260
15/82
Day-6 PBD: 5214' - Prep to kill well & TOH w/pkr & press bombs.
Ran press bomb on WL & recorded static pressures. Rel'd pkr. Killed well
w/2% KCl wtr. POH. Perf'd w/4 JSPF @ 4995-98', 5062-68', 5146-56'. Set Bkr
RBP on WL @ 5190'. PU Bkr retriev pkr & TIH. Tstd BP to 2700 psi. Pld up
to set pkr above perfs. Acidized w/2000 gal 15% HCl. RI Amerada press
bombs (2) on WL & set in "R" nple below pkr. Pull WL out of hole. Swbd to
get well to KO. Last rate 1.8 MMCFD & 55 BWPD.
- 11/16/82 5260
Day-7 PBD: 5214' - Prep to fin TIH w/pkr.
SITP 1200 psi. RIH w/WL & retrieve press bomb. Blew well dn. Rel'd pkr.
Kill well. POH w/pkr. RIH & retrieve BP. Set CIBP on WL @ 4975'. Perf
4926-4933' w/4 JSPF. Strt TIH w/Bkr retriev pkr.
- 11/17/82 5260
Day-8 PBD: 5214' - Prep to resume swbg.
Fin TIH w/pkr. Acidized 4926-4933' w/625 gals 15% HCl w/50 ball sealers.
Gd act f/balls during acid job. Set 2 press recorders below pkr by WL.
Strt swbg. Made 24 BWPH, tr gas, tr oil.
- 11/18/82 5260
Day-9 PBD: 5214' Temp PBD: 4975' - Prep to POH.
SITP 400 psi. Retrieved press recorders. Swbd @ 4-5 BFPH, 2-5% oil.
- 11/19/82 5260
Day-10 PBD: 5214' - Prep to fin RIH w/pkr.
SITP 750#. Bld dn. Rel'd pkr & POH. RIH & set Mod "K-1" cmt retainer @
4880'. Tst tbg 3500# & csg 1000#. Inj @ 3 BPM, 1000#. Spt 75 sx Cl "B" cmt
& sting into retainer. Sqz perfs f/4925-4933' w/8 bbls @ 2-1/2 BPM. Fin
press 3000#. Pull out of retainer & left 20' cmt on retainer. PU 20', rev
circ, & POH. RU D-A & perf 4564-4584' w/4 SPF. RD D-A. RIH w/pkr & 2' perf
nple & "R" nple to 3200'. SDON.

ENGLISH WN #37
SW SE Section 22-43S-22E
San Juan County, Utah

- 11/20- 5260
22/92 Day-12 PBD: 5214' TPBD: 4550' - Prep to acidized upper Desert Crk. SIIP O#. FIH w/pkr & spt 3 bbls 15% HCl on perfs. Set pkr @ 4415', tst annulus 2000#. RU Western. Estab inj rate of 6 BPM @ 1200#. PI 1575 gals HC & 31 balls - ball injector failed on 109 balls. No ball action. ISIP O#. RD Western & RU H & H WL. Run tandem press bombs + temp bomb & set in tbg. RU & swb. Well KO. Cln up to pit & flwd to sep f/ 3-1/2 hrs. Final rate 2.6 MMCFD & 33 BWPD @ 381# TP. Gas samples - 4000 ppm H₂S & 10,000 ppm CO₂. RU H & H WL & retr'd bombs. Kill well dn tbg. Rel'd pkr & POH. RU D-A & run Bkr Mod "S" CIBP; set @ 4550'. Tst BP 2000#. Perf Upper Desert Crk w/68 holes f/4496-4515' @ 4 SPF. RD D-A. RIH w/Bkr pkr w/perf nple & "R" nple. Set pkr @ 4300' & SD f/Sunday.
- 11/23/82 5260 Day-13 PBD: 5214' TPBD: 4550' - Prep to resume swbg upper Desert Crk. Rel'd pkr. RIH & spt acid across perfs 4496-4515'. Acidized perfs w/1500 gal 15% HCl. Run press & temp recorders on WL. Swbd well dn. Low fld recovery. Sml amt gas on swb runs.
- 11/24/82 5260 Day-14 PBD: 5214' TPBD: 4550' - Prep to set cmt retainer on WL. Retrieve press & temp bombs. Swbd dn in 2 runs. Cont'd swbg. Est 20 BW, sml flare gas. Rel'd pkr & POH.
- 11/25- 5260
29/82 Day-16 PBD: 5214' TPBD: 4440' - TEMP SUSPENDED - WO GAS MARKET. RIH & set EZSV @ 4440' on WL. RIH w/ 2-7/8", 6.5#, J-55, 8rd, EUE tbg. Tagged EZSV & tstd to 2M psi plus 25M# wt. Displ'd hole w/2% KCl wtr + 35 gals ARCO WP 675 corr inhibitor. ND BOPE, NU tree & RR 11/26/82. Tbg Data: btm of tbg @ 4377' (THF) w/Bkr "F" nple @ 4347' (THF).

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985

LEASE DESIGNATION AND SERIAL NO.

I-149-Ind-7180

NAME OF INDIAN, ALLOTTEE OR TRIBE NAME

Navajo

UNIT AGREEMENT NAME

English Unit

NAME OF LEASE OR FARM

English WN

WELL NO.

37

FIELD AND POOL, OR WILDCAT

Boundary Butte

SEC. T., R., M., OR BLK. AND SURVEY OR AREA

Sec. 22-43S-22E

COUNTY OR PARISH STATE

San Juan Utah

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT-" for such proposals.)

OIL WELL SI GAS WELL OTHER

NAME OF OPERATOR ARCO Oil and Gas Company, Division of Atlantic Richfield Company

ADDRESS OF OPERATOR 707-17th Street, P.O. Box 5540, Denver, CO 80217

LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)
At surface

610' FNL & 1940' FEL, Section 22

PERMIT NO. ELEVATIONS (Show whether OP, RT, CR, etc.)

API #-None 5350' GL

Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF PULL OR ALTER CASING
FRACTURE TREAT MULTIPLE COMPLETION
SHOOT OR ACIDIZE ABANDON*
REPAIR WELL CHANGE PLANS
Other:

SUBSEQUENT REPORT OF:

WATER SHUT-OFF REPAIRING WELL
FRACTURE TREATMENT ALTERING CASING
SHOOTING OR ACIDIZING ABANDONMENT*
(Other) Shut in-Pending Gas Market

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

DESCRIPTION OF PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

This well was completed as a shut-in gas well in the Paradox formation in November, 1982. The well never produced, waiting on gas market.

This Paradox well is shut-in due to the lack of a gas market at this time. The gas from the Paradox formation is sour. El Paso Natural Gas, whose pipeline services the English Lease, does not currently have the capacity in their sweetening plant to condition this gas. ARCO is working towards securing a share of El Paso's expanded plant capacity, scheduled for sometime in 1986.

This well has behind-pipe reserves in various members of the Paradox formation. P&A of this well would only promote economic waste and loss of reserves.

RECEIVED

APR 25 1985

DIVISION OF OIL

GAS & MINING

I hereby certify that the foregoing is true and correct

SIGNED Stephen Rose TITLE Dist. Prod. Sup't. DATE April 19, 1985

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL IF ANY:

*See Instructions on Reverse Side

ARCO Oil and Gas Company
Rocky Mountain District
707 Seventeenth Street
Mailing address: P.O. Box 5540
Denver, Colorado 80217
Telephone 303 293 7031



L. B. Morse
Operations Manager

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

April 1, 1985

Mr. John S. McKee
Assistant Area Manager
United States Dept. of Interior
Office of the Secretary
Minerals Management Service
Drawer 600
Farmington, New Mexico 87401

Re: Letter of March 26, 1985
Requesting T/A, P/A, or Restoring Production
of 12 Wells, Lease No. I-149-IND-7180
Navajo Tribe, San Juan County, Utah

Dear Mr. McKee:

Your letter of March 26, 1985, requested Sundry Notices describing plans for the subject wells in your attached letter. This letter will summarize our plans for all of these wells including seven of the wells in which the Sundry Notices are attached. Each of the 12 specified wells is completed in the shallow Coconino sandstone or the deeper Paradox limestone, as indicated below.

Zones of Completion

<u>Coconino Sandstone</u>	<u>Paradox Limestone</u>
English #2	English #19
English #4	English #6
English #5	English #7
English #8	English #10 37
English #26	English #11
English #31	
English #36	

We plan on plugging and abandoning the Coconino wells listed above. These wells have watered out due to a strong water drive. No workover or recompletion possibilities exist.

Lease No. I-149-IND-7180

April 1, 1985

Page Two

The Paradox wells are all shut-in due to the lack of a gas market at this time. The gas from the Paradox formation is sour. El Paso Natural Gas, whose pipeline services the English lease, does not currently have the capacity in their sweetening plant to condition this gas. However, they reportedly are in the process of increasing the plant capacity and ARCO's Gas Contract Department is working to secure a share of this plant expansion, which is scheduled to occur sometime in 1986. These five wells have behind-pipe reserves in various members of the Paradox formation, and the P&A of these wells would promote economic waste and loss of reserves.

If you have any questions concerning this matter, please contact Dianne Calogero (303) 293-7085.

Very truly yours,

 FOR L. B. MORSE

L. B. Morse
Operations Manager

LBM:DBC:sh

Attachments



United States Department of the Interior

BUREAU OF LAND MANAGEMENT
Caller Service 4104
Farmington, New Mexico 87499

IN REPLY REFER TO:
3100 (016)
I-149-IND-7180

MAR 26 1985

CERTIFIED—RETURN RECEIPT REQUESTED

Arco Oil and Gas Company
Production - Rocky Mountain District
Attn: Keith Angel
P. O. Box 2197
Farmington, NM 87499

RECEIVED
J. E. TAYLOR
FARMINGTON
DATE MAR 27 1985

Dear Mr. Angel:

Our records indicate that you are the operator of the following well on lease No. I-149-IND-7180:

<u>Well No.</u>	<u>Location</u>	<u>Date of Last Production</u>
- No. 26 English	NESW, sec. 16, T. 43 S., R. 22 E.	January 1982
No. 6 English	SENE, sec. 16, T. 43 S., R. 22 E.	January 1982
No. 7 English	NENW, sec. 16, T. 43 S., R. 22 E.	January 1982
- No. 31 English	NENE, sec. 21, T. 43 S., R. 22 E.	January 1982
- No. 2 English	NESW, sec. 22, T. 43 S., R. 22 E.	January 1982
- No. 36 English	NESW, sec. 22, T. 43 S., R. 22 E.	August 1983
- No. 4 English	SENW, sec. 22, T. 43 S., R. 22 E.	January 1982
- No. 5 English	SENW, sec. 22, T. 43 S., R. 22 E.	January 1982
- No. 8 English	SWNW, sec. 22, T. 43 S., R. 22 E.	January 1982
No. 37 English	SWSE, sec. 22, T. 43 S., R. 22 E.	February 1983
No. 11 English	NENW, sec. 26, T. 43 S., R. 22 E.	January 1982
No. 9 English	SWNE, sec. 16, T. 43 S., R. 22 E.	January 1982

Title 43 CFR Section 3162.3-4 requires that the lessee shall promptly plug and abandon, condition as a service well, or condition as a water well, any well on a lease that is not used or useful for the purpose of the lease. Accordingly, you are required to advise this office within 30 days of the date of this letter, by Sundry Notice of your intent to perform one of the following:

1. Condition the well to a useful function.
2. Temporarily abandon the well.
3. Permanently plug and abandon the well.

Any temporary abandonment request must include the following:

1. Justification of the reason the well should be temporarily abandoned rather than permanently plugged and abandoned. A WELL MAY NOT BE TEMPORARILY ABANDONED FOR MORE THAN 12 MONTHS.
2. A complete record of perforations in the well casing.
3. Provide for the installation of a bridge plug or a cement plug no more than 50 feet above each set of open perforations and the well bore filled with conditioned, non-corrosive fluid and shut-in at the surface. If a bridge plug is used, it must be capped with cement. The cement cap must be the greater of 35 feet or five sacks of cement if placed by dump bailer or, 25 sacks if spotted by tubing. If a cement plug is used it must be the greater of 100 feet or 25 sacks of cement.
4. Rehabilitation of the surface must be performed on all disturbed surface except for that necessary to service the well.
5. The anticipated date the operations will occur. Albert Gonzales, Petroleum Engineering Technician, MUST BE NOTIFIED A MINIMUM OF 48 HOURS PRIOR TO COMMENCING ANY ABANDONMENT SO THAT THE OPERATIONS CAN BE WITNESSED.

Any request for permanent plugging and abandonment must include the following:

1. The reason that the well should be permanently plugged and abandoned.
2. A plugging program to isolate and protect subsurface zones, other minerals and water zones.
3. The anticipated date the plugging will occur. Albert Gonzales, Petroleum Engineering Technician, MUST BE NOTIFIED A MINIMUM OF 48 HOURS PRIOR TO COMMENCING ANY ABANDONMENT SO THAT THE PLUGGING CAN BE WITNESSED.

Failure to file a Sundry Notice providing the information requested above within 30 days of the date of this letter will result in an automatic assessment of \$250 pursuant to 43 CFR 3163.3(a), and Civil Penalties pursuant to 43 CFR 3163.4-1.

You are further advised that any instructions, orders and decisions issued by the Bureau of Land Management are subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4 and 43 CFR 4.700.

Sincerely yours,


Area Manager

ARCO Oil and Gas Company
Rocky Mountain District
707 Seventeenth Street
Mailing address: P.O. Box 5540
Denver, Colorado 80217
Telephone 303 293 7031



L. B. Morse
Operations Manager

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

April 1, 1985

Mr. John S. McKee
Assistant Area Manager
United States Dept. of Interior
Office of the Secretary
Minerals Management Service
Drawer 600
Farmington, New Mexico 87401

Re: Letter of March 26, 1985
Requesting T/A, P/A, or Restoring Production
of 12 Wells, Lease No. I-149-IND-7180
Navajo Tribe, San Juan County, Utah

Dear Mr. McKee:

Your letter of March 26, 1985, requested Sundry Notices describing plans for the subject wells in your attached letter. This letter will summarize our plans for all of these wells including seven of the wells in which the Sundry Notices are attached. Each of the 12 specified wells is completed in the shallow Coconino sandstone or the deeper Paradox limestone, as indicated below.

Zones of Completion

<u>Coconino Sandstone</u>	<u>Paradox Limestone</u>
English #2	English #19
English #4	English #6
English #5	English #7
English #8	English #10 37
English #26	English #11
English #31	
English #36	

We plan on plugging and abandoning the Coconino wells listed above. These wells have watered out due to a strong water drive. No workover or recompletion possibilities exist.

Lease No. I-149-IND-7180

April 1, 1985

Page Two

The Paradox wells are all shut-in due to the lack of a gas market at this time. The gas from the Paradox formation is sour. El Paso Natural Gas, whose pipeline services the English lease, does not currently have the capacity in their sweetening plant to condition this gas. However, they reportedly are in the process of increasing the plant capacity and ARCO's Gas Contract Department is working to secure a share of this plant expansion, which is scheduled to occur sometime in 1986. These five wells have behind-pipe reserves in various members of the Paradox formation, and the P&A of these wells would promote economic waste and loss of reserves.

If you have any questions concerning this matter, please contact Dianne Calogero (303) 293-7085.

Very truly yours,

 FOR L. B. MORSE

L. B. Morse
Operations Manager

LBM:DBC:sh

Attachments

ARCO Oil and Gas Company
Rocky Mountain District
707 Seventeenth Street
Mailing address: P.O. Box 5540
Denver, Colorado 80217
Telephone 303 293 7031



L. B. Morse
Operations Manager

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

April 1, 1985

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Assistant Area Manager
United States Dept. of Interior
Office of the Secretary
Minerals Management Service
Drawer 600
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<u>Coconino Sandstone</u>	<u>Paradox Limestone</u>
English #2	English # 2 9
English #4	English #6
English #5	English #7
English #8	English # 10 37
English #26	English #11
English #31	
English #36	

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April 1, 1985

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Very truly yours,

 FOR L. B. MORSE

L. B. Morse
Operations Manager

LBM:DBC:sh

Attachments



United States Department of the Interior

BUREAU OF LAND MANAGEMENT
Caller Service 4104
Farmington, New Mexico 87499

IN REPLY REFER TO:
3100 (016)
I-149-IND-7180

MAR 26 1985

CERTIFIED—RETURN RECEIPT REQUESTED

Arco Oil and Gas Company
Production - Rocky Mountain District
Attn: Keith Angel
P. O. Box 2197
Farmington, NM 87499

RECEIVED
J. E. TAYLOR
FARMINGTON
DATE MAR 27 1985

Dear Mr. Angel:

Our records indicate that you are the operator of the following well on lease No. I-149-IND-7180:

<u>Well No.</u>	<u>Location</u>	<u>Date of Last Production</u>
- No. 26 English	NESE, sec. 16, T. 43 S., R. 22 E.	January 1982
No. 6 English	SENE, sec. 16, T. 43 S., R. 22 E.	January 1982
No. 7 English	NENE, sec. 16, T. 43 S., R. 22 E.	January 1982
- No. 31 English	NESE, sec. 21, T. 43 S., R. 22 E.	January 1982
- No. 2 English	NESE, sec. 22, T. 43 S., R. 22 E.	January 1982
- No. 36 English	NESE, sec. 22, T. 43 S., R. 22 E.	August 1983
- No. 4 English	SENE, sec. 22, T. 43 S., R. 22 E.	January 1982
- No. 5 English	SENE, sec. 22, T. 43 S., R. 22 E.	January 1982
- No. 8 English	SENE, sec. 22, T. 43 S., R. 22 E.	January 1982
No. 37 English	SWSE, sec. 22, T. 43 S., R. 22 E.	February 1983
No. 11 English	NENE, sec. 26, T. 43 S., R. 22 E.	January 1982
No. 9 English	SWNE, sec. 16, T. 43 S., R. 22 E.	January 1982

Title 43 CFR Section 3162.3-4 requires that the lessee shall promptly plug and abandon, condition as a service well, or condition as a water well, any well on a lease that is not used or useful for the purpose of the lease. Accordingly, you are required to advise this office within 30 days of the date of this letter, by Sundry Notice of your intent to perform one of the following:

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1. The reason that the well should be permanently plugged and abandoned.
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Failure to file a Sundry Notice providing the information requested above within 30 days of the date of this letter will result in an automatic assessment of \$250 pursuant to 43 CFR 3163.3(a), and Civil Penalties pursuant to 43 CFR 3163.4-1.

You are further advised that any instructions, orders and decisions issued by the Bureau of Land Management are subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4 and 43 CFR 4.700.

Sincerely yours,


Area Manager

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

031124

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

5. LEASE DESIGNATION AND SERIAL NO.
1-149-Ind-7180

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Navajo

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
English WN

9. WELL NO.
37

10. FIELD AND POOL, OR WILDCAT
Boundary Butte

11. SEC., T., S., M., OR B.L.K. AND SUBST OR ASSA
Section 22-T43S-R22E

12. COUNTY OR PARISH | 13. STATE
San Juan | Utah

1. OIL WELL GAS WELL OTHER Change of Operator

2. NAME OF OPERATOR Present Operator
ARCO Oil and Gas Company, a Division of Atlantic Richfield Co.

3. ADDRESS OF OPERATOR
P. O. Box 1610 - Midland, Texas 79702

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)
At surface
SE SW SE Section 22-T43S-R22E
610 FSL 1940 FEL

14. PERMIT NO. | 15. ELEVATIONS (Show whether of. vt. or. md.)
GL 5350

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) _____	(Other) _____
(Other) Change of Operator <input checked="" type="checkbox"/>			

(NOTE: Report results of multiple completion or Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

The parties listed below wish to notify this Commission of the change of operator for the well described above

From: ARCO Oil and Gas Company, a Division of Atlantic Richfield Company
P. O. Box 1610
Midland, Texas 79702

To: Hondo Oil & Gas Company
P.O. Box 2208
Roswell, New Mexico 88202

API No: 4303730805



DIVISION OF OIL, GAS & MINING

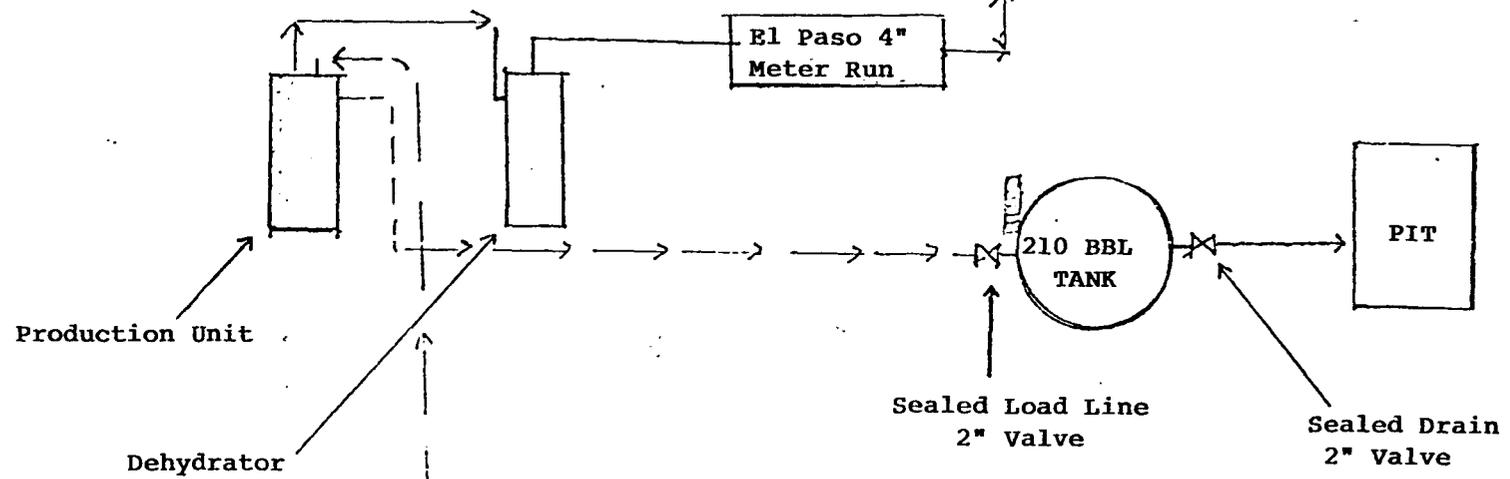
Effective Date: January 1, 1987

I hereby certify that the foregoing is true and correct
SIGNED J. K. Thompson TITLE Attorney-in-Fact DATE FEB 27 1987

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

Road to location



W

E

43-037-30805

Site Security Plan
 Boundary Butte Field
 English #37
 SW SE Section 22, T43S-R22E
 San Juan County, Utah
 Lease No. I-149-IND 7180

All lines 2" Schedule 80
 wrapped and buried 2'

Well Head
 2 7/8" x 5000 PSI

Hondo Oil & Gas Company
 Pioneer Business Center
 341 East "E"
 Suite 200
 Casper, Wyoming 82601
 Rocky Mountain District Office



RECEIVED
 APR 06 1989

DIVISION OF
 OIL, GAS & MINING

ENTITY IDENTIFICATION

All oil and gas wells operated by Hondo are identified under one reporting entity number. For a single entity to exist, all wells should have a common operator, common ownership, and a common producing zone. Since the oil wells produce from the Coconino Sandstone formation and the gas wells produce from the Paradox formation, two reporting entities should exist.

RECOMMENDATION

A new reporting entity for gas wells producing from the Paradox formation should be utilized for future reporting. As a courtesy to Hondo, entity 10995 has been established for the Paradox formation, and the Division will transfer previously reported Paradox production to this entity effective March 1, 1989.

WELLS INVOLVED

English #1	43-037-15911	43S	22E	Sec. 22	Entity 525 to 10995
English #6	43-037-15915	43S	22E	Sec. 16	Entity 525 to 10995
English #7	43-037-15916	43S	22E	Sec. 16	Entity 525 to 10995
English #9	43-037-15918	43S	22E	Sec. 16	Entity 525 to 10995
English #10	43-037-15919	43S	22E	Sec. 21	Entity 525 to 10995
English #11	43-037-15920	43S	22E	Sec. 26	Entity 525 to 10995
English #37	43-037-30805	43S	22E	Sec. 22	Entity 525 to 10995

Change made July 20, 1989, effective March 1, 1989. The only well that produced in 1989 is the English #37, all other wells have been in a shut-in status.

Brought to my attention by Ralph Aiello, changes made per Division recommendation.

Lisha Romero/Administrative Analyst



125 West North Temple, 3 Triad Center, Suite 350, Salt Lake City, Ut
801-538-5340

MONTHLY OIL AND GAS PRODUCTION REPORT

Operator name and address:

• REIDA HENRY
HONDO OIL & GAS COMPANY
PO BOX 2208
ROSWELL NM 88202

Utah Account No. N5025

Report Period (Month/Year) 6 / 92

Amended Report

Well Name	Producing	Days	Production Volume		
API Number Entity Location	Zone	Oper	Oil (BBL)	Gas (MSCF)	Water (BBL)
ENGLISH WN #29 ✓ 4303720254 00525 43S 22E 22	CCSD		I-149-IND-7180		
ENGLISH WN #30 ✓ 4303720283 00525 43S 22E 22	CCSD		"		
ENGLISH WN #34 ✓ 4303730021 00525 43S 22E 16	CCSD		"		
ENGLISH WN #35 ✓ 4303730022 00525 43S 22E 22	CCSD		"		
ENGLISH WN #33 ✓ 4303730027 00525 43S 22E 21	CCSD		"		
ENGLISH #1 ✓ 4303715911 10995 43S 22E 22	PRDX		"		
ENGLISH #6 ✓ 4303715915 10995 43S 22E 16	PRDX		"		
ENGLISH #7 ✓ 4303715916 10995 43S 22E 16	PRDX		"		
ENGLISH #9 ✓ 4303715918 10995 43S 22E 16	PRDX		"		
ENGLISH #10 ✓ 4303715919 10995 43S 22E 21	PRDX		"		
ENGLISH #11 ✓ 4303715920 10995 43S 22E 26	PRDX		"		
ENGLISH #37 ✓ 4303730805 10995 43S 22E 22	PRDX		"		
TOTAL					

Comments (attach separate sheet if necessary) _____

I have reviewed this report and certify the information to be accurate and complete. Date _____

Authorized signature _____ Telephone _____

MOUNTAIN STATES PETROLEUM CORPORATION

213 EAST FOURTH STREET
ROSWELL, NEW MEXICO
88201

June 19, 1992

Utah State Tax Commission
160 East Third South
Salt Lake City, Utah 84134

Re: Field Number : 305
Field Name: Boundary Butte
San Juan County, Utah

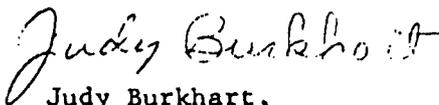
Dear Sir;

Please be advised that Mountain States Petroleum Corporation has acquired the interest of Hondo Oil & Gas Company, Post Office Box 2208, Roswell, N.M., 88202-2208, in the captioned property.

As operator, Mountain States will be filing and remitting Oil and Gas Severance Tax, Mineral Production Withholding Tax and Oil and Gas Conservation Tax for this property to the State of Utah. It is our understanding that these taxes are remitted quarterly. Hondo has filed and remitted for the 1st quarter of this year. Mountain States will begin filing and remitting with the 2nd quarter.

Please furnish this office at Post Office Box 1936, Roswell, New Mexico, 88202-1936, attention Judy Burkhart, all necessary forms, coupon books, reports and instructions that are applicable. Mountain States Petroleum Corporation's Tax I.D. number is 85-0204476. If you are in need of anything further in this matter please contact the undersigned at (505) 623-7184. Thank you.

Sincerely,



Judy Burkhart,
Secretary

C N217800643

Hondo Oil & Gas Company

Box 2208
Roswell, New Mexico 88202
(505) 625-8700



REC'D USTC P.B.
JUN 25 1992

June 23, 1992

Utah State Tax Commission
160 East 300 South
Salt Lake City UT 84134-0410

Re: Utah Severance Tax
Return TC-801
Hondo Oil & Gas Company
N5025

Gentlemen:

The Second Quarter taxes due to be paid September 1, 1992 for the English that Hondo Oil & Gas Company has been remitting will be paid by Mountain States Petroleum.

Mountain States Petroleum purchased the English lease effective February, 1992. Please write to them if you need further documentation to record this change of responsibility with your office.

Please direct any and all future correspondence regarding the English to:

Mountain States Petroleum
PO Box 1936
Roswell NM 88202-1936

Sincerely,

Toni Reeves

Toni Reeves

/drs

copy: Mountain States Petroleum

MOUNTAIN STATES PETROLEUM CORPORATION

213 EAST FOURTH STREET
ROSWELL, NEW MEXICO
88201

June 26, 1992

Utah State Tax Commission
160 East Third South
Salt Lake City, Utah 84134

Re: Identification Number
Request for New Application

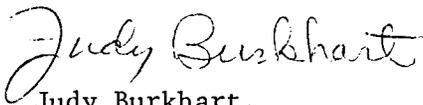
Gentlemen:

Please refer to Mountain States Petroleum Corporaton's letter dated June 19, 1992, and Hondo Oil & Gas Company's letter dated June 23, 1992, relative to the change in ownership of the English lease and wells located in San Juan County, Utah.

Please furnish Mountain States with an identification number or application for the same in order that we may successfully file and pay the Second Quarter taxes which will be coming due for this property.

Please direct your reply or any questions you may have concerning this matter to the undersigned at Post Office Box 1936, Roswell, New Mexico, 88202-1936 or (505) 623-7184. Thank you.

Sincerely,



Judy Burkhart,
Secretary

Enclosures: 2
Attachment

RECEIVED

JUL 28 1992

DIVISION OF
OIL GAS & MINING

MOUNTAIN STATES PETROLEUM CORPORATION

213 EAST FOURTH STREET
ROSWELL, NEW MEXICO
88201

July 31, 1992

State of Utah
Department of Natural Resources
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

Attention: Leisha Romero,
Division of Oil, Gas and Mining

Re: Change of Operator
Boundary Butte/English wells
San Juan County, Utah

Dear Ms. Romero,

Pursuant to our telephone conversation this morning, please find enclosed one Sundry Notice for each well affected by the Change of Operator from Hondo Oil & Gas Company to Mountain States Petroleum Corporation.

As we discussed, after you receive these papers and assign Mountain States Petroleum Corporation an account number you will call our office and advise us of the number so that we can use it to submit our monthly production reports.

If you are in need of anything further in this matter please let me know. Thank you for all of your assistance with this transfer.

Sincerely,

Judy Burkhart
Judy Burkhart,
Secretary

Enclosures

RECEIVED

AUG 06 1992

DIVISION OF
OIL GAS & MINING

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

SUBMIT IN TRIPLICATE
(0 Instructions on
reverse side)

<p align="center">SUNDRY NOTICES AND REPORTS ON WELLS</p> <p align="center"><small>(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)</small></p>		<p>3. LEASE DESIGNATION AND SERIAL NO. I149IND7180</p>
<p>1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/></p>		<p>6. IF INDIAN, ALLOTTEE OR TRIBE NAME Navajo</p>
<p>2. NAME OF OPERATOR Hondo Oil & Gas Company</p>		<p>7. UNIT AGREEMENT NAME English Unit</p>
<p>3. ADDRESS OF OPERATOR P. O. Box 2208, Roswell, NM 88202</p>		<p>8. FARM OR LEASE NAME English WN</p>
<p>4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 610' FSL & 1940' FEL</p>		<p>9. WELL NO. 37</p>
<p>14. PERMIT NO. 43-037-30805</p>		<p>10. FIELD AND POOL, OR WILDCAT Boundary Butte</p>
<p>15. ELEVATIONS (Show whether OF, RT, CR, etc.)</p>		<p>11. SEC., T., R., M., OR B.L. AND SURVEY OR AREA Sec 22-T43S-R22E</p>
		<p>12. COUNTY OR PARISH 13. STATE San Juan UT</p>

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	FULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <u>Change of Operator</u> <input checked="" type="checkbox"/>	
(Other) <input type="checkbox"/>		<small>(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)</small>	

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Change of Operator from:

Hondo Oil & Gas Company
P. O. Box 2208
Roswell, NM 88202

TO:

Mountain States Petroleum Corp.
213 E. Fourth Street
Roswell, NM 88201

RECEIVED

AUG 06 1992

DIVISION OF
OIL, GAS & MINING

EFFECTIVE DATE: 2/1/92

ACTUAL FIELD OPERATIONS BY MOUNTAIN STATES PETROLEUM CORPORATION BEGAN 6/1/92

18. I hereby certify that the foregoing is true and correct

Hondo SIGNED [Signature] MOUNTAIN STATES PETROLEUM CORP.
SIGNED [Signature], President 5/27/92
TITLE Vice President DATE 5-20-92

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:



**THE
NAVAJO
NATION**

P.O. BOX 308 • WINDOW ROCK, ARIZONA 86515 • (602) 871-4941

PETERSON ZAH
PRESIDENT

MARSHALL PLUMMER
VICE PRESIDENT

August 20, 1992

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. Paul Slayton
Mountain States Petroleum Corporation
213 East Fourth Street
Roswell, New Mexico 88201

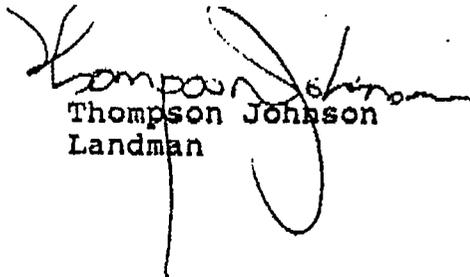
Dear Mr. Slayton:

Enclosed please find an approved copy of the Navajo Nation's Assignment of Mining Lease form for oil and gas lease number I-149-IND-7180.

If you have any questions, please do not hesitate to call our office at (602) 871-6587.

Sincerely,

MINERALS DEPARTMENT


Thompson Johnson
Landman

Enclosure

THE NAVAJO NATION
MINERALS DEPARTMENT
DIVISION OF RESOURCES

MAY 1962
Minerals Department
Bureau of Geology

ASSIGNMENT OF MINING LEASE
Part I

Lease No. T-149-IND-7180

1. Date the original mining lease was approved by the Department of the Interior: _____

Dated: June 24, 1946 Approved: August 30, 1946

2. Primary Term: Ten (10) Years Royalty Rate: 12.5%

3. Lessor: Byrd-Frost, Inc.

4. Description of the land being assigned: S/2 of Section 8; S/2 of Section 15; All of
Sections 16, 17, 21, 22, 23, 26, 27, 35 & 36, T-43-S, R-22-E; and All of
Section 31, T-43-S, R-23-E, Salt Lake Meridian, San Juan County, Utah

5. Assignor: Hondo Oil & Gas Company

6. Assignee: Mountain States Petroleum Corporation

7. Portion of the rights/title under transfer: All of Hondo Oil & Gas Company's right, title
and interest, being an undivided 50% interest.

8. Reserved overriding royalties: None

9. Previous assignees and portion of the rights/title transferred and overriding royalties: _____

(1) Byrd-Frost, Inc. to Paul B. English - an undivided 25% interest (12-03-46)

(2) Byrd-Frost, Inc. to Western Natural Gas Company - an undivided 37.5%
interest (6-02-47)

(3) Paul B. English to Western Natural Gas Company - an undivided 12.5%
interest (9-03-47)

(4) Western Natural Gas Company to *Sinclair Oil & Gas Company - an undivided
50% interest (11-23-63)

*Atlantic Richfield Company being successor in interest to Sinclair Oil &
Gas Company by virtue of merger in 1969

If there were more than four (4) previous Assignees, please use continuation form(s)

The Assignee shall furnish to the lessor (The Navajo Nation, Attention: Minerals Department P.O. Box 146, Window Rock, AZ 86515), copies of all reports filed with the Minerals Management Service and the Bureau of Land Management subsequent to federal laws and regulations, when filed. The Assignee shall furnish also all oil and gas sale tickets, copies of drill stem tests, pressure tests, core analyses, seismic data and any other information required by the Minerals Department for this lease.

Mountain States Petroleum Corporation

By: Roger P. Sletten
ASSIGNEE'S SIGNATURE

5-15-92

Date

MOUNTAIN STATES PETROLEUM CORPORATION

213 EAST FOURTH STREET
ROSWELL, NEW MEXICO
88201

October 21, 1992

RECEIVED

OCT 22 1992

DIVISION OF
OIL GAS & MINING

State of Utah
Natural Resources
Oil, Gas, & Mining
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
Attn: Ms. Vicky Corney

Re: Form DOGM 56-64-21 for Hondo Oil & Gas Co. Roswell, N M.

Dear Vicky:

Please find enclosed copies of the above referenced forms made out to Hondo Oil & Gas Co. These properties have been sold to Mountain States Petroelum Corp., and we have been making reports on said properties since June 1992. Mountain States Petroleum Corp.'s Account Number is 9500.

Please check and see if this has all been changed over to Mountain States Petro. Corp.

Thank you for your help in this matter.

Very truly yours,


Ruby Wickersham

RLW/ms

Enclosures

MOUNTAIN STATES PETROLEUM CORPORATION

213 EAST FOURTH STREET
ROSWELL, NEW MEXICO
88201

October 29, 1992

Utah Department of Natural Resources
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84130-1203

Attention: Lisha Romero - FAX # 801-359-3940

Re: Boundary Butte Field
English Lease - Navajo Nation I-149-IND-7180

Dear Ms. Romero,

Pursuant to our telephone conversations this date I am faxing you a copy of the assignment of mining lease approved by the Navajo Nation.

As we discussed, all of the English wells are located on this one Indian lease and this copy should allow you to change your records to show that Mountain States Petroleum Corporation took over as operator in June of this year.

If you are in need of anything further in this matter please let me know. Thank you for all of your assistance with this transfer.

Sincerely,



Judy Burkhart,
Secretary

Attachments: 4 pages



State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Norman H. Bangarter
Governor

Dee C. Hansen
Executive Director

Dianne R. Nielson, Ph.D.
Division Director

355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
801-538-5340

October 30, 1992

Judy Burkhart
Mountain States Petroleum Corporation
P. O. Box 1936
Roswell, New Mexico 88202

Dear Ms. Burkhart:

Re: Hondo Oil & Gas Co. to Mountain States Petroleum Corporation.

In reviewing the operator change for the referenced companies, it was determined that your company is not currently registered with the Utah Department of Commerce. This letter is written to advise you of your responsibility to register your company with the state prior to conducting business within Utah. This can be accomplished by contacting:

Department of Commerce
Division of Corporations
160 East 300 South
Salt Lake City, Utah 84111
(801) 530-4849

Sincerely,

A handwritten signature in cursive script that reads "Lisha Romero".

Lisha Romero
Administrative Analyst

cc: Dept. of Commerce
D.T. Staley
R.J. Firth
Operator File(s)
Correspondence File/ldc

Division of Oil, Gas and Mining
OPERATOR CHANGE WORKSHEET

Routing:	
1- LCR	7- VLM
2- DTS	
3- VLC	
4- RJF	
5- RWM	
6- ADA	

Attach all documentation received by the division regarding this change.
 Initial each listed item when completed. Write N/A if item is not applicable.

- Change of Operator (well sold) Designation of Agent
 Designation of Operator Operator Name Change Only

The operator of the well(s) listed below has changed (EFFECTIVE DATE: 2-1-92)

TO (new operator)	<u>MOUNTAIN STATES PETRO CORP</u>	FROM (former operator)	<u>HONDO OIL & GAS COMPANY</u>
(address)	<u>PO BOX 1936</u>	(address)	<u>PO BOX 2208</u>
	<u>ROSWELL NM 88202</u>		<u>ROSWELL NM 88202</u>
	<u>JUDY BURKHART</u>		<u>REIDA HENRY</u>
	phone <u>(505) 623-7184</u>		phone <u>(505) 625-6743</u>
	account no. <u>N 9500</u>		account no. <u>N 5025</u>

Well(s) (attach additional page if needed):

Name: **SEE ATTACHED** API: _____ Entity: _____ Sec ___ Twp ___ Rng ___ Lease Type: _____
 Name: _____ API: _____ Entity: _____ Sec ___ Twp ___ Rng ___ Lease Type: _____
 Name: _____ API: _____ Entity: _____ Sec ___ Twp ___ Rng ___ Lease Type: _____
 Name: _____ API: _____ Entity: _____ Sec ___ Twp ___ Rng ___ Lease Type: _____
 Name: _____ API: _____ Entity: _____ Sec ___ Twp ___ Rng ___ Lease Type: _____
 Name: _____ API: _____ Entity: _____ Sec ___ Twp ___ Rng ___ Lease Type: _____
 Name: _____ API: _____ Entity: _____ Sec ___ Twp ___ Rng ___ Lease Type: _____

OPERATOR CHANGE DOCUMENTATION

- See 1. (Rule R615-8-10) Sundry or other legal documentation has been received from former operator (Attach to this form). *(Rec'd 8-6-92)*
- See 2. (Rule R615-8-10) Sundry or other legal documentation has been received from new operator (Attach to this form). *(Rec'd 8-6-92) (Rec'd 10-22-92) (Rec'd 10-29-92)*
- See 3. The Department of Commerce has been contacted if the new operator above is not currently operating any wells in Utah. Is company registered with the state? (yes no) ____ If yes, show company file number: ____ *(Letter mailed 10-30-92)*
- See 4. (For Indian and Federal Wells ONLY) The BLM has been contacted regarding this change (attach Telephone Documentation Form to this report). Make note of BLM status in comments section of this form. Management review of Federal and Indian well operator changes should take place prior to completion of steps 5 through 9 below.
- See 5. Changes have been entered in the Oil and Gas Information System (Wang/IBM) for each well listed above. *(10-30-92)*
- See 6. Cardex file has been updated for each well listed above. *(10-30-92)*
- See 7. Well file labels have been updated for each well listed above. *(10-30-92)*
- See 8. Changes have been included on the monthly "Operator, Address, and Account Changes" memo for distribution to State Lands and the Tax Commission. *(10-30-92)*
- See 9. A folder has been set up for the Operator Change file, and a copy of this page has been placed there for reference during routing and processing of the original documents.

ENTITY REVIEW

- lee* 1. (Rule R615-8-7) Entity assignments have been reviewed for all wells listed above. Were entity changes made? (yes/no) no (If entity assignments were changed, attach copies of Form 6, Entity Action Form).
- N/A* 2. State Lands and the Tax Commission have been notified through normal procedures of entity changes.

BOND VERIFICATION (Fee wells only)

- N/A* 1. (Rule R615-3-1) The new operator of any fee lease well listed above has furnished a proper bond.
- N/A* 2. A copy of this form has been placed in the new and former operators' bond files.
- lee* 3. The former operator has requested a release of liability from their bond (yes/no) no. Today's date 11-2-92 1992. If yes, division response was made by letter dated 11-2-92 1992.

LEASE INTEREST OWNER NOTIFICATION RESPONSIBILITY

- N/A* 1. (Rule R615-2-10) The former operator/lessee of any fee lease well listed above has been notified by letter dated 11-2-92 1992, of their responsibility to notify any person with an interest in such lease of the change of operator. Documentation of such notification has been requested.
- N/A* 2. Copies of documents have been sent to State Lands for changes involving State leases.

MICROFILMING

- RWM* 1. All attachments to this form have been microfilmed. Date: Nov 3 1992.

FILED

- lee* 1. Copies of all attachments to this form have been filed in each well file.
- lee* 2. The original of this form and the original attachments have been filed in the Operator Change file.

COMMENTS

921029 Btm/moab "Handled thru Btm/N.m." (see BIA Approval?)

MOUNTAIN STATES PETROLEUM CORPORATION

213 EAST FOURTH STREET
ROSWELL, NEW MEXICO
88201

February 2, 1993

State of Utah
Department of Natural Resources
Division of Oil, Gas and Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

Re: Annual Status Report of Shut-in wells

Gentlemen:

Please find enclosed duplicate copies of Sundry Notices this company filed with the Bureau of Land Management relative to our Utah shut-in wells.

These copies are furnished as Annual Status Reports per Utah Admin. R. 649-8-10. If you are in need of anything further in this matter please contact the undersigned. Thank you.

Sincerely,



Judy Burkhart,
Secretary

Enclosures

RECEIVED

FEB 05 1993

DIVISION OF
OIL GAS & MINING

DEPARTMENT OF THE INTERIOR

BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT" for such proposals.)

5. LEASE DESIGNATION AND SERIAL NO.

T-149-IND-7180

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

Navajo

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

English

9. WELL NO.

#37

10. FIELD AND POOL, OR WILDCAT

Boundary Butte

11. SEC., T., R., N., OR BLE. AND SURVEY OR AREA

Sec. 22-43S-22E

12. COUNTY OR PARISH 13. STATE

San Juan

Utah

1. OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR

Mountain States Petroleum Corporation

3. ADDRESS OF OPERATOR

Post Office Box 1936, Roswell, N.M. 88202-1936

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)
At surface

610' FSL & 1940' FEL

14. PERMIT NO.

43-037-30805

15. ELEVATIONS (Show whether DF, RT, OR, etc.)

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF

PULL OR ALTER CASING

WATER SHUT-OFF

REPAIRING WELL

FRACTURE TREAT

MULTIPLE COMPLETION

FRACTURE TREATMENT

ALTERING CASING

SHOOT OR ACIDIZE

ABANDON*

SHOOTING OR ACIDIZING

ABANDONMENT*

REPAIR WELL

CHANGE PLANS

(Other)

(Other) Continue to Shut-in

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Request permission to allow this well to remain shut in until a favorable economic situation occurs relative to the sale of gas.

18. I hereby certify that the foregoing is true and correct

SIGNED

Paul Clayton

TITLE

President

DATE

2/2/93

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

RECEIVED

FEB 05 1993

DIVISION OF OIL GAS & MINING

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Division of Oil, Gas and Mining
OPERATOR CHANGE WORKSHEET

ROUTING
1. DJJ
2. CDW

Change of Operator (Well Sold)

X - Operator Name Change/Merger

The operator of the well(s) listed below has changed, effective:

1/1/2008

FROM: (Old Operator): N9500-Mountain States Petroleum Corp 3001 Knox St. Suite 403 Dallas, TX 75205 Phone: 1 (214) 389-9800	TO: (New Operator): N3495-Nacogdoches Oil & Gas, Inc PO Box 632418 Nacogdoches, TX 75963-2418 Phone: 1 (936) 560-4747
--	---

CA No.		Unit:						
WELL NAME	SEC	TWN	RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
SEE ATTACHED LIST								

OPERATOR CHANGES DOCUMENTATION

Enter date after each listed item is completed

- (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 5/9/2008
- (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 5/9/2008
- The new company was checked on the **Department of Commerce, Division of Corporations Database** on: 12/5/2007
- Is the new operator registered in the State of Utah: Business Number: 6757345-0143
- (R649-9-2)Waste Management Plan has been received on: IN PLACE
- Inspections of LA PA state/fee well sites complete on: n/a
- Reports current for Production/Disposition & Sundries on: notified 6/10/08
- Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM BIA not yet
- Federal and Indian Units:**
The BLM or BIA has approved the successor of unit operator for wells listed on: n/a
- Federal and Indian Communization Agreements ("CA"):**
The BLM or BIA has approved the operator for all wells listed within a CA on: n/a
- Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: n/a

DATA ENTRY:

- Changes entered in the **Oil and Gas Database** on: 6/10/2008
- Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 6/10/2008
- Bond information entered in RBDMS on: n/a
- Fee/State wells attached to bond in RBDMS on: n/a
- Injection Projects to new operator in RBDMS on: n/a
- Receipt of Acceptance of Drilling Procedures for APD/New on: n/a

BOND VERIFICATION:

- Federal well(s) covered by Bond Number: n/a
- Indian well(s) covered by Bond Number: 301

LEASE INTEREST OWNER NOTIFICATION:

- (R649-2-10) The **FORMER** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: n/a

COMMENTS:

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS		6. LEASE DESIGNATION AND SERIAL NUMBER: I-149-IND-7180
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Navajo Nation
		7. UNIT or CA AGREEMENT NAME: None
1. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____	8. WELL NAME and NUMBER: See attached	
2. NAME OF OPERATOR: NACOGDOCHES OIL & GAS, INC. N 3495	9. API NUMBER: See attach	
3. ADDRESS OF OPERATOR: PO BOX 632418 CITY NACOGDOCHES STATE TX ZIP 75963-2418	PHONE NUMBER: (936) 560-4747	10. FIELD AND POOL, OR WILDCAT: Boundary Butte
4. LOCATION OF WELL FOOTAGES AT SURFACE: See attached		COUNTY: San Juan
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: _____		STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: 1/1/2008	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input checked="" type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

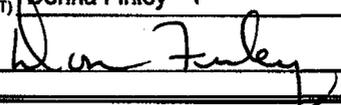
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

SELLER: **effective 1/1/2008**

Company: **Mountain States Petroleum Corp N9500**
Address: **3001 Knox ST, Suite 403 Dallas, TX 75205**
Phone: **(214) 389-9800**

Signature: 
Kit Chambers, Vice President

BIA BOND = 301

NAME (PLEASE PRINT) Donna Finley	TITLE Secretary/Treasurer
SIGNATURE 	DATE 4/23/2008

(This space for State use only)

APPROVED 6/10/2008
Earlene Russell
Division of Oil, Gas and Mining
Earlene Russell, Engineering Technician

(See Instructions on Reverse Side)

RECEIVED
MAY 09 2008
DIV. OF OIL, GAS & MINING

FORM 9 Attachment

API Well Number	Current Operator	New Operator	Well Name	Well Status	Well Type	Qtr/Qtr	Section	Township-		FEL/FWL
								Range	FNL/FSL	
43-037-15911	Mountain States Petroleum Corp	Nacogdoches Oil & Gas, Inc	ENGLISH 1	Producing	Gas Well	NENW	22	43S-22E	660 N	1980 W
43-037-15915	Mountain States Petroleum Corp	Nacogdoches Oil & Gas, Inc	ENGLISH 6	Shut-In	Gas Well	SENE	16	43S-22E	2310 N	330 E
43-037-15916	Mountain States Petroleum Corp	Nacogdoches Oil & Gas, Inc	ENGLISH 7	Shut-In	Gas Well	NENW	16	43S-22E	330 N	1650 W
43-037-15918	Mountain States Petroleum Corp	Nacogdoches Oil & Gas, Inc	ENGLISH 9	Shut-In	Gas Well	SWNE	16	43S-22E	2310 N	1650 E
43-037-15919	Mountain States Petroleum Corp	Nacogdoches Oil & Gas, Inc	ENGLISH 10	Producing	Gas Well	SENE	21	43S-22E	1880 N	760 E
43-037-15920	Mountain States Petroleum Corp	Nacogdoches Oil & Gas, Inc	ENGLISH 11	Shut-In	Gas Well	NENW	26	43S-22E	560 N	1980 W
43-037-20070	Mountain States Petroleum Corp	Nacogdoches Oil & Gas, Inc	ENGLISH WN 12	Producing	Oil Well	SENE	21	43S-22E	1550 N	660 E
43-037-20104	Mountain States Petroleum Corp	Nacogdoches Oil & Gas, Inc	ENGLISH WN 13	Shut-In	Oil Well	NENE	21	43S-22E	450 N	940 E
43-037-20105	Mountain States Petroleum Corp	Nacogdoches Oil & Gas, Inc	ENGLISH WN 14	Shut-In	Oil Well	NWNW	22	43S-22E	1100 N	500 W
43-037-20148	Mountain States Petroleum Corp	Nacogdoches Oil & Gas, Inc	ENGLISH WN 16	Shut-In	Oil Well	NWNW	22	43S-22E	400 N	580 W
43-037-20150	Mountain States Petroleum Corp	Nacogdoches Oil & Gas, Inc	ENGLISH WN 15	Shut-In	Oil Well	SWSE	16	43S-22E	810 S	1350 E
43-037-20175	Mountain States Petroleum Corp	Nacogdoches Oil & Gas, Inc	ENGLISH WN 17	Shut-In	Oil Well	SWNE	21	43S-22E	1400 N	1700 E
43-037-20182	Mountain States Petroleum Corp	Nacogdoches Oil & Gas, Inc	ENGLISH WN 19	Shut-In	Oil Well	NWNE	21	43S-22E	150 N	1750 E
43-037-20185	Mountain States Petroleum Corp	Nacogdoches Oil & Gas, Inc	ENGLISH WN 20	Shut-In	Oil Well	SENE	21	43S-22E	2350 N	660 E
43-037-20187	Mountain States Petroleum Corp	Nacogdoches Oil & Gas, Inc	ENGLISH WN 21	Shut-In	Oil Well	SWSE	16	43S-22E	710 S	2580 E
43-037-20195	Mountain States Petroleum Corp	Nacogdoches Oil & Gas, Inc	ENGLISH WN 23	Shut-In	Oil Well	NWSE	16	43S-22E	1600 S	1920 E
43-037-20217	Mountain States Petroleum Corp	Nacogdoches Oil & Gas, Inc	ENGLISH WN 25	Shut-In	Oil Well	NESW	16	43S-22E	1480 S	2400 W
43-037-20235	Mountain States Petroleum Corp	Nacogdoches Oil & Gas, Inc	ENGLISH WN 27	Producing	Oil Well	SWNW	22	43S-22E	1970 N	180 W
43-037-20239	Mountain States Petroleum Corp	Nacogdoches Oil & Gas, Inc	ENGLISH WN 28	Producing	Oil Well	SWNE	21	43S-22E	2040 N	1375 E
43-037-20254	Mountain States Petroleum Corp	Nacogdoches Oil & Gas, Inc	ENGLISH WN 29	Shut-In	Oil Well	NWSW	22	43S-22E	2600 S	180 W
43-037-20283	Mountain States Petroleum Corp	Nacogdoches Oil & Gas, Inc	ENGLISH WN 30	Producing	Oil Well	NWSW	22	43S-22E	2400 S	960 W
43-037-30021	Mountain States Petroleum Corp	Nacogdoches Oil & Gas, Inc	ENGLISH WN 34	Shut-In	Oil Well	SESE	16	43S-22E	250 S	850 E
43-037-30022	Mountain States Petroleum Corp	Nacogdoches Oil & Gas, Inc	ENGLISH WN 35	Shut-In	Oil Well	NESW	22	43S-22E	2100 S	1600 W
43-037-30027	Mountain States Petroleum Corp	Nacogdoches Oil & Gas, Inc	ENGLISH WN 33	Producing	Oil Well	NENE	21	43S-22E	880 N	240 E
43-037-30805	Mountain States Petroleum Corp	Nacogdoches Oil & Gas, Inc	ENGLISH 37	Shut-In	Gas Well	SWSE	22	43S-22E	610 S	1940 E

RECEIVED
MAY 09 2008
 DIV. OF OIL, GAS & MINING